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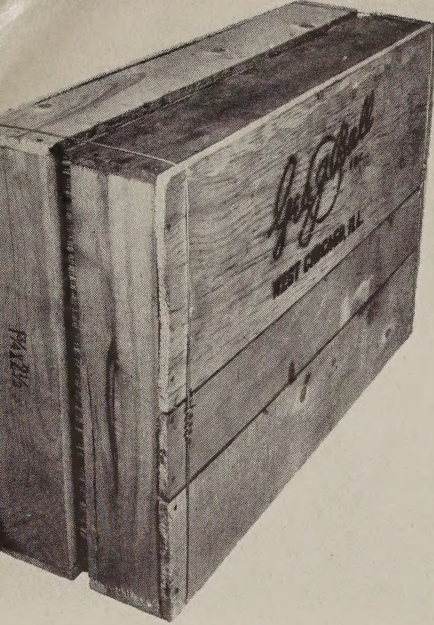


WE BELIEVE OUR STRAIN OF CANADIAN ALL-DOUBLE PETUNIAS IS UNEXCELLED

"Flower Seeds for Florists"

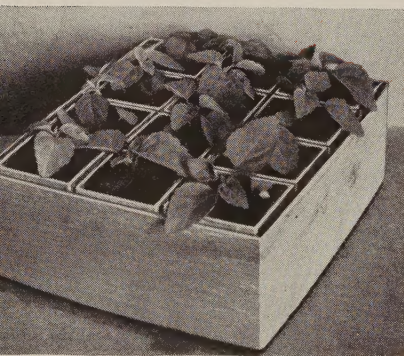
CATALOG NO. 56 • JANUARY 1948

Geo. J. Ball
INC.
WEST CHICAGO
ILLINOIS



Every order for 2000 Ball Bands comes packed in two greenhouse flats made of specially prepared, decay-resisting wood. This feature means a real saving to you in these days of high lumber costs.

Gro. J. Ball
INC.
WEST CHICAGO
ILLINOIS



This new style veneer flat No. 1 filled with growing plants in veneer bands makes ideal retail selling package for spring sales. See price list for 3 sizes.

Below: Buddleia plant in 6-inch band that has been banded up a year. Many other nursery plants can be handled in this manner with these very practical bands. Nurserymen and others find these bands ideal for wintering plants in frames.



You'll like these Wood Veneer Bands because—

- Better aeration and drainage! Our own trials, and reports of experienced growers everywhere, favor wood over waterproof paper for all-important drainage and aeration.
- Long life! Ball Bands are specially prepared to last many months in moist soil. Only select grades of veneer used.
- Ready to use! Bands reach you double galvanized-wire stapled; simply open and plant.
- Packed in greenhouse flats! Ball Better Bands come packed in special rot-resistant flats (2 flats per unit of 2000 bands). You'll save plenty on these flats alone. Figure this when comparing prices.



Ball Better Bands come completely assembled; easy to open as cut shows.



Banded field-grown Carnation plants save costly benching time.

PRICES ON OUR BALL BETTER PLANT BANDS

Prices given are F.O.B. our Midwestern factory and are subject to change without notice. To save delay be sure to specify which way to ship, Express or Freight. This is important.

Bands shipped in units of 2000 each, packed in 2 rot-resistant greenhouse flats (see cut). Please order in units of 2000 only. Smaller quantities, in corrugated boxes at 10% additional. Quantity Discounts; write for special prices on large quantities.

Size		Price per 2000 unit	Size		Price per 1000 unit	These sizes packed in units of 250.		Bottoms for following sizes.	
Size			Size			Size	Per 1000	Size	Per 1000
2 x2		\$ 8.20	3x4		\$ 6.70	6x6	\$21.00	3x4	\$ 3.25
1 1/4 x 2 1/2		8.40	4x3		6.70	6x9	28.00	4x3	3.75
2 x 2 1/2		9.40	4x4		7.75			4x4	4.50
2 x3		9.90	4x6		15.80			4x6	5.90
2 1/2 x 2 1/2		10.20						6x6	9.90
2 1/2 x3		10.60						6x9	15.80
3 x3		11.50							

Remember—a flat with every thousand bands.

SMALL WOOD VENEER FLATS

For retail plant sales (see cut at left). Completely made up ready to use.

	Per 100	Per 250	Per 1000
No. 1 (for 12—1 3/4" bands)	\$3.25	\$8.00	\$28.50
No. 2 (for 12—2" bands)	3.50	8.75	31.50
No. 3 (for 12—2 1/2" bands)	4.20	9.40	35.00

BIRD FIBRE PLANT BANDS

Sold in units of 1000 only. Prices F.O.B. East Walpole, Mass., or West Chicago, Ill.

Quantity Discounts: 1000 to 49,000 net; 50,000 to 200,000 5%; over 200,000 10%.

	1 1/2 x 2 1/2	1 3/4 x 2 1/2	2 x 2 1/2	2 x3	2 1/2 x3	3x3	3x4
Vita-Band 40		\$4.25	\$4.70	\$5.05	\$5.50	\$6.30	\$7.35
Vita-Band 10	\$2.70	2.90	3.25	3.75	4.15	4.55	5.90

TOM THUMB FLATS AND BAND COMBINATIONS

These combinations sold in units of 500 sets only

Price Per	100	500	1000	Size No. 1 (1M Flats with 12M 1 3/4" Bands)	With Vita-Band 40 Per M Sets	With Vita-Band 10 Per M Sets
Size No. 1 (For 12 1 3/4" Bands)	\$3.50	\$16.40	\$31.30		\$78.30	\$62.40
Size No. 2 (For 12 2" Bands)	3.80	17.90	34.30	Size No. 2 (1M Flats with 12M 2x2 1/2" Bands)	85.00	67.85

BIRD RED AND GREEN POTS

RED for shipping only. GREEN for growing and shipping.

	PRICE PER THOUSAND							
	2"	2 1/4"	2 1/2"	3"	3 1/2"	4"	5"	6"
Red	\$6.00	\$6.00	\$ 6.10	\$ 6.85	\$ 9.15	\$10.40	\$13.30	\$16.90
Green	9.65	9.80	10.50	12.10	16.35	19.25	26.40	34.15

ALL BIRD PRODUCTS F.O.B. EAST WALPOLE, MASS., OR WEST CHICAGO, ILL.

What's Ahead for '48?

With business continuing prosperous, and with some shortages, it seems quite safe to prepare for a good '48. However, it is generally agreed that prices will tend to slowly decline. While business authorities are wary on the more distant future, there is general agreement that in a few years all lines of merchandise will be in good supply and the prices normal. If this comes to pass, it would seem good business to clear up one's obligations and do no more expansion than is necessary at this time. This course should be followed especially by any business not well financed. Meanwhile, let us help you grow all the good stock you can.

Gro. J. Ball.

THAT BACK-PAGE REPRODUCTION

of an oil painting by Walter Haskell Hinton, my friend and neighbor. We feel that he has caught the spirit of 58 years back; especially considering the meager data that could be recalled. Admittedly, looking ahead is more stimulating, still, when a past has proved a good foundation, it is, we think, all right to recall it.

G. J. B.

AIR MAIL DELIVERY

We will ship your FLOWER seed order back by AIR MAIL and pay the postage if:

1. you send your order to us by air mail;
2. the seed totals less than 8 ozs. (flower seeds only);
3. and if, in our judgment air mail will save time in getting your seed to you.

If your order totals over 8 ozs. or includes vegetable seed, and you are in a hurry we suggest you send sufficient extra remittance and specify AIR SHIPMENT; your express agent can give you air express rates from West Chicago to you. We will, of course, continue to pay ALL transportation on seed orders in any quantity sent by rail in U.S. and Canada.

PLEASE NOTE! Because a very large part of our entire year's seed business is experienced during January and early February, we sometimes find it impossible to get orders out as promptly as we would like at this season. Please help us to help you by sending us your order several days before you actually need your seed. After mid-February every order will again leave us the same day we receive it.

SEE PAGE 48 FOR BUSINESS TERMS

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Printed in U.S.A.

New and Outstanding Varieties



Visitors inspecting our extensive outdoor trial grounds. Hundreds of different varieties are lined up here for comparison.

Much thought has gone into selecting these eight outstanding varieties from our list of over 1600 items. In doing this we have relied extensively upon comparative trials of hundreds of different varieties growing under identical conditions in our trial grounds (pictured at left).

We believe they represent real improvements—better take time to consider them carefully.

BEGONIA

Ball Dwarf Carmen

Of the same bushy compact type of growth as Adeline, but with rich bronze leaves and freely produced light pink flowers. This valuable new Begonia is our own introduction. Tr. pkts. only, \$1.00.

COLEUS

Rainbow Mixture

Our finest strain of larger leaved Coleus containing a wide variation of bright and unusual colors. Fine for use in spring plant combinations. Tr. pkt., 75c; $\frac{1}{32}$ oz., \$1.80; $\frac{1}{16}$ oz., \$3.25.

COSMOS

Radiance

This All America Silver Medal winner for 1948 is a striking new color combination never before seen in Sensation Cosmos. Deep rose with large crimson eye. Tr. pkt., 20c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.60.

PETUNIA

Little Giants Mixed

Small ruffled California Giant type flowers about 2 in. across are freely produced on low growing uniform plants. An excellent bedder. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.40; $\frac{1}{32}$ oz., \$2.50; $\frac{1}{16}$ oz., \$4.50.

SWEET PEAS

Cuthbertson's Spring Flowering

This new strain is unexcelled for January greenhouse sowing and is being widely used in place of the Summer Class for outside crops. See page 17 for complete list of eleven first class varieties.

PETUNIA

Fringed Snowstorm

Nicely fringed, pure white flowers with gold throats are very freely produced. Growth is uniform and vigorous, but not tall. $\frac{1}{2}$ Tr. pkt., 65c; Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.35; $\frac{1}{32}$ oz., \$3.75; $\frac{1}{16}$ oz., \$6.75.

CHRYSANTHEMUM

Yellowstone

Both single and double golden yellow 2 in. flowers are carried on bushy plants about 20 in. tall. Made an excellent showing in our outdoor trials this past summer. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

MARIGOLD

Gnome

Uniform ball-shaped plants with dainty fern-like fragrant foliage. Plants are literally covered with small single flowers of a pleasing bright golden yellow. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25.

PETUNIAS

(About 200,000 seeds per oz.)

Petunias have a universally popular appeal for bedding not possessed by any other plant. This is due to their brilliant colors and effectiveness in mass plantings, plus the comparative ease with which they flourish under a wide variation of soils and climates. In addition, large numbers are sold each year in combinations or as finished pot plants. Important points for the grower to remember are that a cool temperature and moderate use of water are essential if stocky, well-hardened plants are to be had. Equally important is the use of first class seed strains. Ours are among the world's finest.

To help in figuring your seed needs, we indicate on various pages the number of seeds per ounce of important items. This is NOT an indication of number of plants to be expected. Because of varying conditions under which seed matures, germination under good conditions will run 60-70% or more; but don't figure too high.

POPULAR ALL-DOUBLES

CANADIAN STRAINS

***Canadian All-Double.** Growers continue to report wonderful results with this fine all-double Petunia. Its excellent germination and rich coloring were points about which we received many favorable comments. This distinctly superior strain produces 100% double flowers on dwarf, compact plants and is highly effective for pots or bedding. We offer this strain in mixture only, composed of rose, pink, salmon, white, lavender, mauve and purple. $\frac{1}{2}$ Tr. pkt. (about 400 seeds), \$1.80; Tr. pkt. (about 800 seeds), \$3.00; 5 Tr. pkts. for \$14.00.

***All-Double America.** Continues to hold its popularity with growers everywhere. Freely produces medium sized carnation-flowered blooms of a pleasing deep rose color. If sown early and pinched hard a couple of times, very nice 4 in. pot plants can be had for that important spring business. In addition we find it quite valuable for bedding, our outdoor trials this past season flowering heavily until frost. $\frac{1}{2}$ Tr. pkt., \$1.50; Tr. pkt., \$2.50; $\frac{1}{64}$ oz., \$7.50; $\frac{1}{32}$ oz., \$13.60.

All-Double Colossal Shades of Rose (Our own packets; originator's seed). $\frac{1}{2}$ Tr. pkt. (about 400 seeds), \$1.80; Tr. pkt. (about 800 seeds), \$3.00.



Double Petunias make fine 4-in. pot plants. They're easily grown and in flower they sell on sight.

The New Pan-American All Doubles

These new strains were developed in the United States by a skilled Petunia breeder, and our own greenhouse trials show them to be fully equal to the best pre-war varieties.

***Allegro.** Large, fully double flowers of clear, deep salmon are carried on fairly dwarf plants. An entirely new color in the all-double class.

Minuet. Lavender orchid. This variety is inclined to draw up and should be pinched for shapely plants.

Nocturne. Semi-double, deep Elk's Pride purple. The medium sized flowers are borne on dwarf, restricted plants.

***Sonata.** Large, fully double, pure white flowers. Not as compact in growth as most varieties and should be pinched to induce branching.

***Caprice.** Dwarf growing, deep rose; fine uniform habit.

Prices above 5, each: $\frac{1}{2}$ Tr. pkt. (500 seeds), \$2.50; Tr. pkt. (1000 seeds), \$4.00; $\frac{1}{128}$ oz., \$7.25; $\frac{1}{64}$ oz., \$13.50; $\frac{1}{32}$ oz., \$25.00.

***Glorious Mixture.** Contains both tall and dwarf types in all of the above colors. This formula mixture is first class in every respect. $\frac{1}{2}$ Tr. pkt. (500 seeds), \$2.00; Tr. pkt. (1000 seeds), \$3.50; $\frac{1}{128}$ oz., \$6.50; $\frac{1}{64}$ oz., \$12.00; $\frac{1}{32}$ oz., \$21.00.

Don't overlook the exceptional value of All-Double Petunias for bedding work.

CALIFORNIA GIANT PETUNIAS

When properly grown—cool and near the glass—the Dwarf Giants make exceptionally nice pot plants in 3's or 4's. In flower they sell on sight.

*BALL DWARF GIANT No. 1

We consider this the finest uniformly dwarf strain available. Produces over 80% extra large, open throated flowers ranging in color from velvety crimson to delicate pink; and is at its very best in a 3 or 4 inch pot. However, since dwarfness can be had only at some cost in vigor, this strain is not recommended for bedding. $\frac{1}{2}$ Tr. pkt., 75c; Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50; $\frac{1}{16}$ oz., \$8.00.



Ball Dwarf Giants No. 1. Most uniformly large-flowered dwarf strain of this valuable pot plant class of Petunias.

***Ball Dwarf Giant No. 2. Ramona Strain.** More vigorous in growth than our No. 1 strain, therefore better suited for outdoor bedding work. Produces about 65% large California Giant flowers in a good range of choice colors. $\frac{1}{2}$ Tr. pkt., 60c; Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00; $\frac{1}{16}$ oz., \$5.50.

California Giants Mixture No. 5. A very complete and attractive mixture of colors in the tall Giant class. Free flowering and suitable for outdoor bedding. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.35; $\frac{1}{32}$ oz., \$2.50.

California Giants—Supreme Florists' Strain. Fine bedding mixture in soft shades of pink, rose, and salmon. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.75; $\frac{1}{16}$ oz., \$5.00.

***Giant Rainbow Strain.** Outstanding for its unusual range of brilliant colors which we have found in no other mixture. $\frac{1}{2}$ Tr. pkt., 60c; Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00; $\frac{1}{16}$ oz., \$5.50.

Separate Color Varieties

***Ball Lavender Giant.** A pleasing soft lavender with darker veins; dwarf growth. $\frac{1}{2}$ Tr. pkt., 75c; Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.40; $\frac{1}{32}$ oz., \$4.40.

***Glamour.** A beautiful rich salmon rose, shading lighter toward the throat. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75

***Copper Red, Dark.** Attractive deep coppery crimson. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.35; $\frac{1}{32}$ oz., \$2.50.

The GRANDIFLORAS

There are three distinct classes of Grandifloras: the Ruffled; the Regular Fringed; and the Dwarf Fringed. Like all Petunias, the most vigorous are the tall ones. The Dwarf Fringed make ideal pot plants, but for bedding most of them do not hold up in poor dry soil.

Ruffled Grandifloras

***White Queen.** Extra large, wavy pure white flowers and dwarf compact growth make this a truly outstanding Petunia. Fine for bedding or pot plant use. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00; $\frac{1}{16}$ oz., \$5.25.

***Snowstorm.** Fine large flowered white. Similar to White Queen. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00; $\frac{1}{16}$ oz., \$5.25.

***White Cloud.** Not quite as large flowered as the previous two varieties, but very free flowering. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00; $\frac{1}{16}$ oz., \$5.25.

***Elk's Pride Dwarf.** Our strain of this always-popular rich velvety purple variety is admirably suited for bedding or porch boxes. Uniform in growth and a ready seller. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.50; $\frac{1}{16}$ oz., \$4.50.

***Giant Flaming Velvet.** Large ruffled mahogany red flowers and fairly compact growth make this an attractive variety. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75.

Burgundy. Dark Burgundy wine red with large white throat. Well ruffled. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75.

Dwarf Pink Glory. Glowing carmine rose with white throat. About 60% true large flowered. Tr. pkts. only, 50c.

***Ruffled Grandiflora Mixture.** Our own formula mixture of the finest varieties in the Ruffled class. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75; $\frac{1}{16}$ oz., \$3.00.

GRANDIFLORAS—Continued

Fringed Grandifloras

***Fringed Snowstorm** (New). Nicely fringed pure white flowers with faint gold throat are very freely produced. Uniform and vigorous *but not tall*. Our outdoor trial of this the past summer was outstanding, and we recommend it in place of White Beauty. $\frac{1}{2}$ Tr. pkt., 65c; Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.35; $\frac{1}{32}$ oz., \$3.75; $\frac{1}{16}$ oz., \$6.75.

***Dazzler**. Free flowering deep carmine rose; fairly well fringed and very showy. This is a fine pot plant variety. $\frac{1}{2}$ Tr. pkt., 75c; Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.20; $\frac{1}{32}$ oz., \$4.00.

Dainty Lady. A light cream. The nearest approach to a yellow Petunia. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50.

***Golden Jubilee**. Heavily fringed, bright carmine rose with golden throat. An excellent variety for pot plants. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.65; $\frac{1}{32}$ oz., \$3.00.

***Pink Triumph**. Choice clear rose pink, golden throated. Fine bedder. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.35; $\frac{1}{32}$ oz., \$2.50.

***Royal Purple**. Velvety purple with attractively fringed petals. A fine variety. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.75.

***Theodosia Improved**. (Josephine.) Extra large, heavily fringed flowers of brilliant glowing rose with contrasting golden yellow throat. An excellent, vigorous growing Petunia for bedding. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.35; $\frac{1}{32}$ oz., \$2.50.

White Beauty. A strong grower with flowers of finely fringed pure white. A worth-while bedding variety. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.85.



Carl Ball inspecting Petunia Fringed Snowstorm in our trial grounds. We find it extra profuse and dwarf.

Fluffy Ruffles. An attractive fringed mixture for bedding work. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.50; $\frac{1}{8}$ oz., \$4.75.

***Formula Mixture**. A high-class mixture made up of the best named varieties in the Fringed class. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.65; $\frac{1}{16}$ oz., \$3.00.

The Dwarf Erfurts

(Dwarf Fringed)

***Carmencita** (New). According to our trials, this is the nearest approach to a true scarlet Petunia to date. The medium sized, well fringed flowers are a bright salmon red and are borne on dwarf compact plants. We believe there is a real future for this variety. Tr. pkt. (1000 seeds), \$1.25. Limit, one pkt. per customer.

***Setting Sun**. Heavily fringed, beautiful deep rose. One of the most popular Dwarf Erfurts. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.75.

***Lace Veil**. Almost identical to Setting Sun except for its pure white flowers. Tr. pkt. 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.75.

***Dwarf Erfurt Mixture**. A formula mixture of Setting Sun and Lace Veil. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.75.



Petunia, Lace Veil. A very dwarf and compact grower, making it one of our most popular pot plant varieties.

DWARF HYBRIDA PETUNIAS

The Dwarf Hybridas are the most widely used class of Petunias. They adapt themselves readily to a wide range of growing conditions and are unexcelled as bedders or for combinations. They are especially suited to use by growers of flatted plants, and great numbers are sold this way each spring.

Ball Ten Best

These fine varieties constitute three-fourths of our demand for Dwarf Hybrid Petunias.

***Celestial Rose Improved.** Deeper rose coloring and slightly larger flowers than the original Celestial Rose. Unexcelled for pot plant work. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.00.

***Bright Eyes.** Uniformly dwarf and even in growth. The plants produce masses of fairly small rose pink flowers with white throats. A definite improvement over the old Rosy Morn and one of the most promising new Petunias to date. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.10; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.00.

***Heavenly Blue.** An old favorite, and rightly so. Still the best silvery blue in this class. Resembles Celestial Rose in habit of growth. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

***Snow Queen.** Our finest pure white bedding Petunia. Its strong spreading growth and free flowering habit have made it a favorite wherever grown. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.75.

***Peach Red.** A free flowering, deep salmon-rose; uniform in habit and of medium dwarf, vigorous growth. A much brighter and more appealing color than Salmon Supreme. Tr. pkt., 50c; $\frac{1}{16}$ oz., 90c; $\frac{1}{8}$ oz., \$1.65; $\frac{1}{4}$ oz., \$3.00.

***Fair Lady.** A fine large flowered silvery pink; lighter and softer in tone than Celestial Rose. Ideally suited for pot plant use and a fine color under spring greenhouse conditions. Tr. pkt., 35c; $\frac{1}{16}$ oz., \$1.25; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.75; 1 oz., \$13.50.

***English Violet.** A pleasing shade of rosy violet-mauve, with the same vigorous type of growth as Celestial Rose. Uniformly true to color and of fine bedding habit. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.15; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.00.



No other Petunia is as universally grown and well liked today as Celestial Rose Improved. Much selective breeding has gone into this variety since we introduced it to the American trade in 1934. For uniform, vigorous growth and lavish display of freely produced, rose pink flowers, it has no equal.

***Velvet Ball.** Dark red; almost identical to King Henry in color but more spreading in growth and better adapted for bedding use. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.35; $\frac{1}{16}$ oz., \$2.50; $\frac{1}{8}$ oz., \$4.50; $\frac{1}{4}$ oz., \$8.25.

***Admiral.** Our finest blue Petunia. Large attractively ruffled flowers with little violet shading—almost clear blue. Ideal for either pots or bedding. A partial crop failure obliges us to limit the sale of this variety to Tr. pkts. only. Each: 50c.

***Topaz Queen.** A remarkable color combination of glowing carmine rose with distinct orange-scarlet overtone. Medium large flowered and striking whether used for bedding or in pots. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.00.

***Ten Best Formula Mixture.** We mix this ourselves, blending the ten best varieties in proportion to their popularity. Fine for spring flat sales. Tr. pkt., 35c; $\frac{1}{16}$ oz., 90c; $\frac{1}{8}$ oz., \$1.65; $\frac{1}{4}$ oz., \$3.00; 1 oz., \$10.00.

SPECIAL OFFER. We furnish a collection consisting of 1 Tr. pkt. each of these 10 varieties for \$3.50.

Dwarf Hybridas continued on next page

Dwarf Hybridas—Continued

Alderman. Fairly uniform growth with medium small lavender-blue flowers. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.75.

Blue Bird. Similar to Alderman; growth a bit more vigorous. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.75.

***Blue Bedder.** Extra vigorous growth with medium large flowers having less lavender shading and more blue than the above two. A showy variety for bedding. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.75.

***Celestial Rose.** (Regular strain.) Extra fine, bright rose with an ideal bushy habit. Tr. pkt., 35c; $\frac{1}{8}$ oz., 75c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.50.

***Cheerful.** Fairly large clear salmon pink flowers with deeper veining toward throat. Dwarf and compact in growth. Tr. pkt., 50c; $\frac{1}{16}$ oz., 90c; $\frac{1}{8}$ oz., \$1.65; $\frac{1}{4}$ oz., \$3.00; 1 oz., \$9.00.

Cream Star. Bluntly star shaped creamy white. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.15; $\frac{1}{4}$ oz., \$2.00.

***Elk's Star.** Deep velvety crimson with white star. Quite true to type. Tr. pkt., 50c; $\frac{1}{16}$ oz., 90c; $\frac{1}{8}$ oz., \$1.65; $\frac{1}{4}$ oz., \$3.00.

***Glow.** A flashing carmine scarlet; makes a brilliant display for mass plantings. Tr. pkt., 35c; $\frac{1}{16}$ oz., \$1.25; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.75; 1 oz., \$13.50.

***Igloo.** Makes a perfectly rounded mound of medium sized pure white flowers with faint yellowing in the throat. Ideal for borders or pot plants. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.15; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.00.

***King Henry.** Deep velvety crimson or mahogany red. Extra dwarf and compact growth makes this a choice pot plant variety. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.25; $\frac{1}{16}$ oz., \$2.35; $\frac{1}{8}$ oz., \$4.25; $\frac{1}{4}$ oz., \$8.00.

Norma. Lavender with white star; dwarf and compact. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25.

Rose of Heaven. Well known standard rose pink for bedding. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

***Rose Queen Improved.** A rich deep rose about the shade of Topaz Queen; uniformly dwarf and compact, but not weak. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

Rosy Morn. Popular rose pink with large white throat. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75.

Salmon Supreme. A distinct color in bedding Petunias, with clear salmon pink flowers that make an attractive display. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.50; $\frac{1}{16}$ oz., \$2.75.

Snow White. Strong growing plants with creamy white flowers freely produced. Uniform and true to type. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.75.

***Twinkles.** Very showy, medium rose pink with white star. A choice variety for pots or bedding. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

***White Perfection.** An excellent compact pure white. A little dwarf for mass bedding, but fine for borders or pots. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.75.

Violacea. Fairly dwarf deep purple. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25.

Violet Blue. GEM TYPE. Deep violet purple. Growth rather weak for bedding, but fine for pot plants or combination boxes. Tr. pkt., 35c; $\frac{1}{8}$ oz., 70c; $\frac{1}{4}$ oz., \$1.30; 1 oz., \$4.75.

***Dwarf Hybrida Formula Mixture.** A formula blend of the above varieties; not a field grown mixture. Complete and attractive. Tr. pkt., 25c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.50.

Dwarf Hybrida Starred Mixture. Because of frequent requests we are offering this mixture of starred types such as Twinkles, Norma, etc. Well balanced assortment of colors. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$3.75.

Dwarf Hybrida Ruffled Type

***Little Giants Mixed.** Small ruffled California Giant type flowers about 2 in. across are freely produced on low growing uniform plants, and should prove ideal for combination work as well as bedding. Colors range from Amaranth red through rose and pink to white. The greater vigor of this strain is an improvement over the earlier Ruffled Dwarf Hybridas such as Martha Washington listed below. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.40; $\frac{1}{32}$ oz., \$2.50; $\frac{1}{16}$ oz., \$4.50.

Betsy Ross. Has been replaced by Little Giants.

Martha Washington. Ruffled blush pink flowers with attractively veined throat. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.15; $\frac{1}{16}$ oz., \$2.00.

Tall Hybridas

This class resembles the Dwarf Hybridas, but are taller and stronger in growth. Well suited to bedding where conditions are unfavorable.

General Dods. Deep amaranth red. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

***Howards Star Imp.** Medium tall velvety crimson with large white star in each flower. Our strain comes quite true to the starred type. Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.25.

Mars. Rich velvety red, similar to Balcony Black Prince. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.25.

Rose King Improved. Fairly deep, clear rose pink with light golden throat. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.

Topaz Rose. Brilliant deep carmine rose; about same color as Topaz Queen. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

White. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

Exquisite Mixture. Formula mixture; finer large-flowered varieties predominating. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.

The Balconies

The growth of Balconies is strong and tends to lengthen, making them suitable for window boxes or combinations. Also for bedding where unfavorable conditions require strong growth.

***Black Prince.** Rich velvety crimson-red with true Balcony habit. Comes practically 100% true to color. Tr. pkt., 35c; $\frac{1}{16}$ oz., 60c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.85; 1 oz., \$6.75.

***Blue.** A medium violet-blue. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.65; 1 oz., \$5.00.

Cornflower Blue. Attractive mid-blue. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.65; 1 oz., \$5.00.

White	Crimson	Rose	Mixture
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Prices on each above four varieties: Tr. pkt., 35c; $\frac{1}{8}$ oz., 75c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.75.

Diener's Varieties

We supply originator's packets only on the following varieties:
No. 2—Ruffled Monster Flesh-Pink. Deep center. Tr. pkt., 50c.

No. 8—Ruffled Monsters Mixed. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$2.50.

No. 11—Blue. Semi-dwarf violet blue. Tr. pkt., 25c; $\frac{1}{64}$ oz., \$1.50.

No. 22—Rose Color. Tr. pkt., 25c.

No. 45—Santa Barbara. Clear flame rose. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$2.50.

No. 47—Jumbo Mixture. A mixture of Giants. Tr. pkt., \$1.00.

ASTERS

Rot Resistant

(12,000 seeds per oz.)

The strains listed by us as "resistant" were practically 100% so when released by their originators. This work definitely strengthens them, but when they meet the ever varying conditions of soil, culture and seasons, results vary accordingly. Our experience clearly points to conditions that encourage rot in any Asters. That too many transplanting checks are a cause is demonstrated by the fact that direct sowings—no transplanting—usually come thru clean. During the war years and immediately after, some varieties have been allowed to develop an undue number of open centered types because of labor shortages in the California seed fields. We are at present working constantly here at West Chicago to restore these strains to their pre-war level of quality, and improvement should soon be noted.

The BALL Twelve Best

***Queen of the Market Azure Blue.** One of the most popular colors in this early flowering class. A clear light lavender blue. Aug. 1 to 5.

***Queen of the Market White.** The earliest worthwhile cut flower white. Good branching habit and especially valuable for indoor growing. Aug. 1 to 5.

***Royal Azure Blue.** An excellent clear light or azure blue that is one of the most used and saleable colors. A fine commercial cut-flower variety. Sept. 5 to 10.

***Royal Shell Pink.** Extra large incurved flowers borne on strong stems of medium length. A clear shade of pastel or shell pink closely resembling the old favorite Simple Pink. Sept. 1 to 5.

***Ball White Early.** Our own reselected strain of this fine variety. Flowers fully double, very few showing centers even when completely open. One of the most resistant varieties and an excellent commercial sort. Sept. 5 to 10.

***Ball White Late.** Long stemmed and large full petalled flowers, closely following our Ball White Early in flowering season. Sept. 10 to 15. Typically American Branching in flower type and habit. Probably the best mid-season white variety.

***Ball Deep Rose.** Extra long stemmed, large incurved, bright deep rose. This strain has been reselected for more fully double flowers. Continues to be the most popular variety on our list, being well adapted for shipping and handling. Aug. 25 to Sept. 5.

***Ball Deep Purple.** Identical in all respects with our Ball Deep Rose except in color which is a bright deep purple. A better market variety than Royal Purple; brighter flowers and longer stems. Aug. 25 to Sept. 5.

***Branching Azure Blue.** Same color as Royal Azure Blue. Its typical American Branching habit makes it ideal to follow that variety, being a week or two later in flowering. Sept. 15 to 20.



Asters fill a definite need for late summer flowers.

***Early Giant Light Blue.** Extra large and early flowering, with full petalled flowers of the shaggy California Giant type. A very attractive, clear azure or light blue with strong, medium length stems. A fine large-flowered variety for localities with early frost dates. Sept. 15 to 20. Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.75; 4 oz., \$9.50.

***Early Giant Rose Marie.** An excellent large flowered, bright deep rose. One of the most valuable varieties in this Early Giant class. Sept. 15 to 20. Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.75; 4 oz., \$9.50.

***Early Beauty Silvery Rose.** An excellent large flowered light rose or phlox pink, deepening as the flower matures. Long stemmed and a strong grower. Mid-Sept. Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.75; 4 oz., \$9.50.

***12 Best Mixture.** Our own high-class formula mixture made up by ourselves of the above varieties in proportion to their commercial value. Choice and well balanced.

PRICES on each of the above "12 Best" Aster varieties except as otherwise noted: Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$1.85; 4 oz., \$6.50.

SPECIAL OFFER. For growers who are interested in trying all the 12 Best varieties separately rather than in mixture, we offer a tr. pkt. of each for \$3.40.

BALL Resistant Asters—Continued

TILFORD'S RESISTANT ASTERS

Trial plantings of these varieties in our own cloth house as well as those of other growers which we have inspected this past season indicate the Tilford strains to be similar in resistance to our regular California resistant varieties. Flower type is generally quite satisfactory. All of the following are of the Royal class.

Royal White Royal Dark Rose Royal Shell Pink
The above 3 are available in Original Trade Packets only, at \$1.00 per packet.

PRINCESS ASTERS

These types have crested or cushioned anemone centers, forming fairly hard flowers suited for shipping. Our trials show most of them to be rather uncertain in wilt-resistance.

***Princess Golden Sheaf.** Large flowered with outer petals a creamy white shading toward a deeper yellow cushion. A popular commercial variety.

***Princess Barbara.** Very attractive orchid.

***Princess Marsha.** Deep rose shading to crimson.

***Princess Anne.** Light rose pink with cream cushion.

***Princess Bonnie.** Silvery-rose with golden center.

Princess Mixture. Formula blend of above varieties.

Prices on the Above Five Varieties and Mixture, each: Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.75; 4 oz., \$9.50.

Prices on all following varieties except as otherwise noted, each: Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$1.85; 4 oz., \$6.50.

QUEEN OF THE MARKET. Popular early flowering class but not so resistant to rot as the stronger growing, later classes. The two finest varieties will be found in our 12 Best list.

Ballet Queen. Deep salmon rose.

Dark Blue. Rather deep rich shade of purple.

***Deep Rose.** Of the popular Ball Deep Rose color.

Flesh Pink. Shell pink; deepening as it matures.

Mid Blue. Between the popular Azure and Dark Blue.

Crimson. Plant moderately of this heavy color.

THE ROYALS. Second early, closely following Queen of the Markets. Excellent size, stems and color in this profitable class. See also our 12 Best list.

Deep Rose. Slightly taller than other Royals.

Purple. Bright purple; prefer Ball Deep Purple.

White. A good white, but Ball White Early is preferred.

AMERICAN BRANCHING. The standard mid-season class, flowering with us around mid-Sept.

***Ball Phlox Pink.** A fine long-stemmed, light rose-pink, deepening as flowers mature.

***Deep Rose.** Long stems and fine large flowers.

Heart of France. Distinctive scarlet-crimson color.

***Purple.** Rich violet-purple. Long stemmed.

***Rosalie.** Fine, completely double flowers of deep rich rose.

Simple Pink. Standard shell pink variety.

***White.** Excellent cut-flower white; true branching type.

EARLY BEAUTIES. (Formerly called American Beauties.) A very fine, slightly incurved, long stemmed class that always flowers in time to escape the average first frosts of the middle states.

***Azure Fairy.** A fine long-stemmed and large flowered fairly deep azure blue.

Crimson. Color similar to Heart of France.

Deep Rose. A fine deep rose.

Purple. Long stemmed, deep purple.

Shell Pink. (September Beauty.) Delicate light pink.

***White.** Long stemmed and very choice.

SHAGGY TYPES. This includes the Early California Giants and the Cregos. Both have attractively interlaced petals producing a rather informal or fluffy effect.

Early Giant Peach Blossom. Same as Early Giant Light Blue in 12 Best list, but a pleasing light pink. Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.75; 4 oz., \$9.50.

California Giant Dark Purple. Highly resistant rich purple. Sept. 25 to Oct. 1. Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.75; 4 oz., \$9.50.

***Crego Azure Blue.** Fine light blue; large flowers and long stems. Sept. 10 to 15.

***Crego Blue Flame.** Resistant, deep bright blue. Sept. 5 to 10.

***Crego Deep Rose.** Fine large-flowered variety. Sept. 10 to 15.

***Crego Orchid.** Attractive orchid lavender. Sept. 5 to 10.

Crego Peach Blossom. Light rose deepening as flowers open. Sept. 10 to 15.

Crego Purple. A rich, bright color. Sept. 5 to 10.

Crego Shell Pink. Light clear pink. Sept. 10 to 15.

***Crego White.** Excellent pure white. Sept. 5 to 10.

STANDARD RESISTANT MIXTURES

Queen of the Market Mixture.

Crego Mixture.

American Branching Mixture.

Royal Mixture.

Early Beauty Mixture.

King Mixture. (Non-resistant.)

All Double Varieties Mixed. A wide range of types and colors for growers who sell quantities of mixed Aster plants.

Prices on all above mixtures, each: Tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.75; 4 oz., \$6.00.

***Single Base-Branching Mixture.** Because of its distinctly upright growth and base-branching habit, this strain has won wide favor among California cut-flower growers. A large flowered choice mixture. Tr. pkt., 30c; ¼ oz., 45c; 1 oz., \$1.50; 4 oz., \$5.00.

Single Rainbow Mixture. (Special florists' strain.) An attractive mixture of large flowered (3 to 5 in.) single blooms. Tr. pkt., 30c; ¼ oz., 45c; 1 oz., \$1.50; 4 oz., \$5.00.

NON-RESISTANT Varieties

KING OR NEEDLE TYPE. Attractively quilled petals give these flowers an outstanding appearance. Largely used for long distance shipping because of their durability. Mid-Sept.

***Rose.** A fine deep rose pink.

Violet. A rich and striking color.

Crimson. A deep color; rather heavy.

White. Popular commercial color.

Prices on each above King varieties: Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$1.85; 4 oz., \$6.50.

California Giant Mixed. Choice blend of large, fully double "shaggy petalled" flowers. Long stemmed. Late Sept. Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.25.

Giant California Sunshine Mixed. Attractive assortment of colors in this large flowered anemone type. Has small center cushion with long ray petals. Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.25.

Super Giant Los Angeles. Extra large, soft shell pink. Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$3.00.

IMBRICATED POMPONS

Small rounded flowers produced on upright growing, compact plants about 15 in. tall. Excellent for pot plants or bunching as cut flowers.

Violet	Light Blue with white center.	Scarlet
	Rose Carmine White	

Prices above 6, each: Tr. pkt., 40c; ¼ oz., 90c; 1 oz., \$2.80.

Mixture of all colors. Tr. pkt., 30c; ¼ oz., 70c; 1 oz., \$2.10.

FLORISTS' ZINNIAS

(2500 to 4000 seeds per oz.)

If Zinnias for cutting are grown under the protection of cloth or glass, they become longer stemmed and finer than is possible in the open and there's money in growing them this way. Both the Dahlia Flowered and the Lilliputs are unexcelled for this purpose. While they come best when sown direct where they are to flower, most home gardeners prefer to buy started plants. You'll do your customers a real service and realize a better profit for yourself by offering them sturdy plants grown in Ball Better Plant Bands (see inside front cover) instead of the usual spindly transplants.

DAHLIA FLOWERED

The generally preferred class; flowers are deeper with central petals in-curved.

- ***Canary Bird.** A bright, clear canary yellow.
- ***Crimson Monarch.** Large flowered deep crimson red.
- ***Dream.** An attractive medium orchid lavender.
- ***Eldorado.** Unusually attractive salmon-apricot.
- ***Exquisite.** Fine medium rose pink with deeper center.
- ***Golden Dawn.** Clear golden yellow. A good variety.
- Golden State.** A rich orange-yellow; varies some.
- Illumination.** A deep rose; darker than Exquisite.
- Luminosa.** Bright pink suffused with salmon.
- Meteor.** Rich deep amaranth red. A striking color.
- ***Oriole.** Fine orange with darker center.
- Polar Bear.** Large creamy white.
- Purple Prince.** Deep purple; large-flowered.



Our strain of Dahlia Flowered Zinnias is selected for large, fully double flowers and true-to-type colors.

- ***Scarlet Flame.** The finest bright scarlet. Very showy.

PRICES on all Dahlia Flowered varieties, each:
Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; $\frac{1}{2}$ oz., 75c; 1 oz., \$1.25;
4 oz., \$4.00; 1 lb., \$14.50.

SPECIAL OFFER: We furnish a collection consisting of 1 tr. pkt. each of these 14 varieties for \$2.75. We can also furnish a collection consisting of a tr. pkt. each of any 10 varieties (your choice) for \$2.00.

Three Fine Dahlia Flowered Mixtures

- ***GOLD MEDAL MIXTURE.** We believe this is the finest complete mixture of large flowered Zinnias available. This is not a field grown mixture but is carefully blended by formula from first class cut flower colors and varieties in direct proportion to their commercial value.
- ***INDIAN SUMMER MIXTURE.** An unusually attractive giant flowered mixture. Bright reds, yellows and oranges predominate to make up this fine assortment of "Indian Summer" colors.
- ***PASTEL SHADES MIXTURE.** A formula mixture composed of the lighter colors in the large flowered class. Preferred by those who object to strong reds and purples.

PRICES On Above Mixtures, Each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; $\frac{1}{2}$ oz., 75c; 1 oz., \$1.25; 4 oz., \$4.00; 1 lb., \$14.50.

GIANT MAMMOTH

Flowers are some larger in diameter but not so deep and full as are the Dahlia Flowered.

Brightness. Bright, clear rose pink.

Cherry Queen (Cerise Queen). Brilliant cherry-rose.

Daffodil Improved. Clear canary yellow.

Golden Queen. Bright golden yellow.

Lavender Queen. Medium rosy lavender.

***Miss Wilmott.** Pleasing, soft pastel pink.

***Orange King.** A bright orange with scarlet shading.

Pink Profusion. Soft pink shades.

***Purity.** The best white in large flowered Zinnias.

***Rose Queen.** Deep rose; a striking color.

Scarlet Queen. Intense bright scarlet.

Violet Queen. Deep violet-purple.

Mixture. A balanced formula mixture of all Giant Mammoth varieties.

PRICES On Above Varieties and Mixture, Each:

Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; $\frac{1}{2}$ oz., 65c; 1 oz., \$1.10; 4 oz., \$3.60; 1 lb., \$13.50.

SPECIAL OFFER. We offer one trade packet each of the above 12 varieties for \$2.50.

NOVELTY VARIETIES

Under this heading are grouped what we have found to be the best of the various odd-flowered and odd-colored types. Not all are equally true to type, but they do add interest and novelty to any planting, and growers of bedding plants should not overlook them.

***Chrysanthemum Flowered.** Produces large flat flowers similar to the Dahlia Flowered class in size, but with attractive curly petals somewhat resembling a Chrysanthemum. All colors are represented in our strain of this worthwhile novelty. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50; 1 lb., \$15.00.

***Pastel Tints** (Super Crown O'Gold). A mixture of two-tone pastel colors with base of each petal colored a buff or yellow shade. Quite large flowered and a good cut flower. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Gracillima (Red Riding Hood). Freely produces large numbers of small bright crimson flowers. Fine for bedding. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

Haageana Double Hybrids. Especially valuable for bedding. Extra compact and literally covered with small mahogany flowers charmingly variegated gold and orange. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Scabious-Flowered. Fairly tall with some cut-flower value. An Anemone-flowered type with crested center. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

Gaillardia-Flowered or Navajo. Attractive two-tone combinations of rose, bronze, yellow and orange. Medium sized flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

Cupid Mixture. Dwarf, extra small flowered type valuable for borders and rock gardens. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Linearis. Compact (6 to 8 in.) and early flowering, with single bright orange flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

LILLIPUT or POMPON

Small, nicely rounded pompon type flowers that make excellent cutting material when the stems are drawn some by cloth or glass protection. Attractive for bedding in the open where they attain a height of 12 to 14 in. under middle states conditions.

Black Ruby. Deep maroon.

***Canary Gem**

Crimson Gem

Golden Gem

***Lilac Gem**

***Pink Gem**

Purple Gem

***Rosebud.** Fine deep rose.

***Salmon Gem**

***Scarlet Gem**

Valencia. Burnt-orange.

White Gem.

Formula Mixture. All colors.

PRICES on all above Lilliput varieties and mixture; **Each:** Tr. pkt., 15c; $\frac{1}{4}$ oz., 35c; $\frac{1}{2}$ oz., 60c; 1 oz., \$1.00; 4 oz., \$3.20; 1 lb., \$10.00.

Special Offer. Tr. pkt., of each of the 12 Lilliput varieties for \$1.50.

PUMILA TYPE

"Cut and Come Again"

This class is midway between the Giants and Lilliputs in size. Nice for cutting or bedding.

Canary Yellow

Salmon Rose

Pinkie. A pleasing soft pink; fairly long stems.

Golden Orange

Fireball (Scarlet)

Snowball (White)

Mixture of all colors.

PRICES on above Pumila varieties and mixture, each; Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

FANTASY TYPE

The fairly large flowers have informally curled and twisted petals which produce an attractive novelty effect.

***Star Dust.** A bright deep golden yellow.

***Wildfire.** Dazzling scarlet; a strikingly brilliant color.

Rosalie. Intense rose pink.

Melody. Rich orchid lavender.

Mixture. Formula mixture of all colors in this class.

PRICES on above Fantasy varieties and mixture, each; Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.10.



Fantasy Zinnias are an increasingly popular novelty.

MARIGOLDS

(10,000 seeds per oz.)

Nowhere are the results of intensive plant breeding more evident than in today's modern Marigolds. There are varieties which are well suited for cutting; several that make nice pot plants, especially for combinations, and the dwarf types are valuable for bedding. For any purpose their rich warm color is always appealing. Nearly all classes are readily flowered indoors in April and May from a January or February sowing. When Marigolds are grown under glass they must not be checked, especially thru over-watering or low temperature. When this happens they come to a standstill forcing them into buds without sufficient growth.

BALL FIVE BEST

The following five varieties are the most popular cut flower kinds on our list and under average conditions we believe they represent the most profitable sorts to grow for this purpose.

***Ball Giant Orange.** Similar in type to All Double Orange but improves that variety in flower size and slightly darker color. Tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.00.

***All Double Orange.** This belongs to the Fistulosa or large flowered, solid quilled-petal type. Produces nearly 100% double flowers, being preferred to Prince of Orange on this account. An excellent, long-stemmed cut flower strain.

***All Double Lemon.** Identical to the above strain, but a clear lemon yellow.

***Gold Improved.** The popular carnation flowered bright orange with odorless foliage. Excellent for greenhouse forcing.

***Yellow Supreme.** Similar to Gold Improved but with flowers a rich creamy yellow. Odorless foliage.

Five Best Mixture. Our own carefully compounded formula mixture of the above varieties balanced according to their commercial value.

PRICES on above except as noted, each: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60; 4 oz., \$5.50.

ODORLESS MARIGOLDS

For those who dislike the pungent odor of Marigold foliage these varieties will be found valuable.

***Gold Improved.** Described under "Ball 5 Best."

***Yellow Supreme.** Described under "Ball 5 Best."

Crown of Gold. Small golden yellow crested flowers with row of guard petals. Odorless foliage, but a rather weak grower. Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.25.

Odorless-Carnation Flowered Mixture. Ranges in color from deep orange to light yellow. All are of the popular Carnation-flowered type. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50; 4 oz., \$5.00.



Showing actual size Marigold Mission Giant.

Other Cut Flower Varieties

***All Double Mixture.** A mixture of the two All Doubles listed at left, with some intermediate shades. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60; 4 oz., \$5.50.

Prince of Orange, Imp. Bright orange of true quilled-petalled Fistulosa type. Produces 60 to 70% fully double, balance semi- and single. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

Lemon Queen Improved. Same as above but bright lemon yellow. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

Golden Emblem. Same type as above two. A rich golden color midway between them. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

***Guinea Gold.** A carnation flowered golden orange; long-stemmed. Freely produces loosely petalled flowers, 3 inches in diameter. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60; 4 oz., \$5.50.

***Sunset Giants.** An extra large Carnation flowered strain. Long stemmed and the largest flowered variety we know of. Ranges from lemon to deep orange and is around 65 to 75% true to type. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75; 4 oz., \$5.50.

Orange Sunset. A bright orange selection from Sunset Giants. A first class variety. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

MISSION GIANTS. Produces almost perfect ball shaped Chrysanthemum-like blooms about 3 inches in diameter. Exceptionally vigorous and free branching in growth and well suited for either spring greenhouse or outdoor culture.

***Goldsmith.** A very attractive light golden orange in this popular class. Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$2.00.

***Yellowstone.** Same as above but a clear golden yellow. A very pleasing color. Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$2.00.

Mission Giant Mixed. A well balanced mixture in this new type; ranges from deep orange to light yellow. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.70.

WINTER FLOWERING. This class is of value for winter flowering from a fall sowing and will not flower during summer months.

Australian Tree. Golden yellow crest with mahogany guard petals. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.20.

Lieb's Brown and Gold. Similar to above.

Liebs Winter Sunshine. Solid golden yellow.

PRICES above 2, each; Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Winter Harmony. Bright orange crest with reddish guard petals. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.20.

DWARF BEDDING MARIGOLDS

(9,000 seeds per oz.)

This group embraces many colorful and useful types including attractive singles and solid doubles as well as the increasingly popular anemone flowered varieties. While all are fine for spring flat sales, combination work or bedding, the following four are of particular value for these purposes.

OUR FOUR BEST

***Spry.** Extra dwarf and free flowering. Medium small anemone type flowers with golden crest and contrasting dark red guard petals. Exceptionally attractive.

***Ball Dwarf Harmony.** The medium small anemone type flowers of this fine dwarf variety present a striking contrast in bright orange and velvety maroon.

***Butterball.** A very choice fairly dwarf anemone-flowered variety. Crest and guard petals a light golden or butter yellow faintly tipped with maroon.

***Sunkist.** Uniformly dwarf and compact with solid, deep golden orange anemone type flowers about an inch in diameter.

4 Best Dwarf Mixed. Our own carefully balanced mixture of the above varieties.

PRICES on above four varieties and mixture, each:
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75; 4 oz., \$5.50.

Other Fine Bedding Varieties

***Naughty Marietta.** Uniform semi-dwarf, bushy plants, but vigorous and free branching with finely netted leaves. A very prolific bloomer with 2 in. single flowers of golden yellow, each petal having a mahogany base. We were much impressed with this new variety in our outdoor trials this past summer. Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.00.

***Cupid.** Dwarf in habit with 2 in. primrose yellow Chrysanthemum-like flowers which almost completely cover the plant. A fine variety for edging or borders. Odorless foliage. Tr. pkt., 35c; ⅛ oz., 65c; ¼ oz., \$1.20; 1 oz., \$3.60.

***Gold Crest.** Similar to Butterball, listed above, except for slightly darker golden yellow flowers. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75; 4 oz., \$5.50.

Melody. A solid clear golden orange anemone flowered type. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

***Harmony.** Attractive scabious or anemone type flowers with orange crest and maroon guard petals. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00; 4 oz., \$3.00.

Golden Harmony. Very similar to Harmony in flower type and habit but a solid bright golden yellow. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75; 4 oz., \$5.50.

Harmony Hybrids. A mixture of colors in the dwarf double type. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00; 4 oz., \$3.00



***Gnome.** (Little Giant Improved). Uniform ball-shaped plants with dainty fern-like, fragrant foliage. Plants are literally covered with small ½ in. single flowers of a pleasing bright golden yellow shading to orange at center. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.25.

***Limelight.** Primrose yellow chrysanthemum-like flowers, 2 in. across are freely produced on 20 in. plants. Attracted much attention in our trial grounds last summer. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Monarch Mixed. A bright mixture of orange, yellow and mahogany colors in this fully double rounded flower class. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., 90c; 4 oz., \$2.90.

***Primrose** (Improved Pallida). Dense growing dwarf plants with fully double pompon-like flowers about an inch in diameter. Color is a rich golden yellow. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75; 4 oz., \$5.50.

Royal Scot. Showy, fully double flowers striped gold and mahogany. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Yellow Pygmy.** Excellent, very free flowering dwarf Marigold, 6 to 8 in. Double lemon yellow and practically 100% true. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.25.

Robert Beist. Dwarf double, deep rich mahogany-red. Nice. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Scarlet Glow. Bright bronzy red, double flowers 1½ to 2 inches across are borne on dwarf plants. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

***Dwarf French Double Mixed.** An extremely gay and colorful mixture of dwarf double sorts. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00; 4 oz., \$3.00; 1 lb., \$10.00.

***Firecross.** Dwarf single. An attractive orange with mahogany center. Tr. pkt., 15c; 1 oz., 65c; 4 oz., \$2.00.

Legion of Honor. Very similar to Firecross, but lighter in color. Tr. pkt., 15c; 1 oz., 65c; 4 oz., \$2.00.

***Flash.** Single mahogany flowers with golden yellow margins are freely produced on medium dwarf plants. Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$1.80.

Grow Better Snaps

FORCING VARIETIES

Growers shouldn't overlook the possibilities in a January sowing of Forcing Snaps for greenhouse flowering. If planted about 4x6 in. and grown single stemmed, a first class crop can be had for that late spring and early summer business. In addition many of the stronger growing greenhouse varieties are well suited for outside planting in localities where rust is not a factor. Not only are they earlier flowering than most of the Summer class, but the colors are much more complete and uniform. For this purpose sowing should be done about three months before time for planting out and plants carried along in pots or plant bands.

PLEASE NOTE

½ tr. pkts. of any variety priced at \$1.00 are supplied at 60c; ½ pkts. of \$1.50 varieties, \$1.00. No ½ pkts. on \$2.00 or \$3.00 varieties EXCEPT WHERE NOTED. While we obviously have no control over the amount of seed in originator's packets, all of our own contain at least 2,000 seeds.



Dorcas Jane; soft silvery rose.

HYBRID SNAPS

- ***Better Times.** The brightest cerise-rose in forcing Snaps. ½ Tr. pkt., \$1.25; Tr. pkt., \$2.00.
- ***Christmas Cheer.** Extra early and productive bright rose pink. Very popular. ½ Tr. pkt., \$1.75; Tr. pkt., \$3.00.
- ***Dorcas Jane.** A second early with good stems and long spikes of soft silvery rose. ½ Tr. pkt., \$1.50; Tr. pkt., \$2.50
- ***Mary Ellen.** SOLD OUT until June 1st. ½ Tr. pkt., \$1.50; Tr. pkt., \$2.50. Substituting Cheviot Maid No. 33.
- ***Maryland Pink.** ½ Tr. pkt., \$1.75; Tr. pkt., \$3.00.

BALL 10 BEST

Careful attention has been given to making up this list and we believe that it contains the finest available varieties for spring and early summer flowering under most growing conditions.

- ***Christmas Cheer.** See Hybrids above.
- ***Peggy Schumann.** Popular creamy rose; compact spikes and grass-free growth. Tr. pkt., \$2.00.

- ***St. Louis Pink.** Long spikes of clear light pink. An excellent variety for spring. Tr. pkt., \$1.50.
- ***Ethel.** The most satisfactory medium deep yellow; extra clean and uniform. Tr. pkt., \$1.50.
- ***Lady Dorothy.** A rich reddish orange; the finest in this color so far. Tr. pkt., \$3.00.
- ***Margaret.** Clean growing creamy white. Very popular because of its heavy production record. Tr. pkt., \$2.00.
- ***Junglewood White.** Extra long stemmed pure white; clean and shatterproof. ½ Tr. pkt., \$1.25; Tr. pkt., \$2.00.
- ***Cheviot Maid No. 33 (Yoder).** Beautiful medium rose pink; clean growing and productive. Tr. pkt., \$1.50.
- ***Marie Louise.** Beautiful light shell pink; uniformly even growth. Tr. pkt., \$2.00.
- ***Ball Lavender.** Long stemmed and strong growing with long, heavy spikes of pleasing orchid lavender. Tr. pkt., \$1.50.
- ***Ball Forcing Mixture.** Carefully blended from our best varieties. Tr. pkt., \$1.00.

GENERAL LIST (Except Hybrids and 10 Best)

	Tr. Pkt.		Tr. Pkt.
* Afterglow. Popular standard orange bronze.....	\$1.00	La France. Light pink.....	\$1.50
* America. Very attractive rose and orange bi-color.....	1.50	Lucky Strike. Popular spring white.....	1.00
Ball Dwarf White. Nice dwarf white for pots.....	1.00	* Lucky Strike Imp. Long stemmed uniform white.....	1.50
Ball Early Pink. Early flowering rose pink.....	1.00	Maiden's Blush Imp. Pale pink. ½ Tr. pkt., 85c.....	1.50
Ball Gold. The brightest yellow Snap to date.....	1.50	Marion. Nice white for spring.....	1.50
* Ball Supreme Red. A rich, velvety crimson red.....	1.50	* Miss Wooster. Spring flowering, golden orange.....	1.00
Bertha Baur. Prefer Ball Lavender.....	1.50	* New Cincinnati. Medium rose pink; long spikes.....	1.00
Beulah. Spring flowering bronze.....	2.00	* Peace (Ball). An excellent pure white for spring.....	1.50
Bronze Christmas Cheer. Golden bronze and apricot...	2.00	* Rockwood Pink Supreme. Fairly deep, bright rose pink.	2.00
Carol Jean. Light, creamy yellow.....	2.00	* Rose Queen. Standard deep rose for spring.....	1.00
Ceylon Court. Standard yellow.....	1.00	Sara Lou. Spring flowering yellow.....	2.00
* Cheviot Maid Reselected (Ball). Popular rose pink.....	1.00	* Schaffroth's White. Excellent variety; long stemmed..	1.50
Coates Yellow Perfection. Fine spring-flowering yellow..	1.00	Schumann's Lavender. Popular spring variety.....	2.00
Daybreak. Clear light pink.....	1.00	Shisler's Red. Glowing wine red; true to color.....	2.00
* Delworth's Supreme. Long stemmed deep rose.....	1.50	Snow White. Fine white; many flowers duplexed.....	1.50
* Early Cincinnati (Ball). Our own early flowering strain of this fine light rose.....	1.00	* Sunlite (Ball). Extra early golden bronze.....	1.00
Feist's White. Creamy white with yellow lip.....	2.00	Suntan. Early flowering rosy bronze.....	1.00
Gilbert's Pink. Deep rose pink.....	1.50	Thomson's Yellow Imp. Early flowering deep yellow...	2.00
* Glorious. Bright reddish bronze for spring.....	1.50	* Westover's Fringed White. Large ruffled white.....	1.00
Ideal Imp (Hodaly's). Blend of rose, orange and yellow.	1.50	Westover's Fringed White Early	1.50
* Junglewood Yellow. ½ Tr. pkt., \$1.25.....	2.00	* White Wonder Imp. (Ball). Long stemmed pure white.	1.50
Kirkwood Beauty. Orange bronze.....	1.00	* Windmiller's Lilac-Lavender. Rosy lilac.....	1.50
* Klondike Supreme. Vigorous growing deep yellow.....	1.00	Yellow Peggy Schumann	2.00
* Koester's White. Fine, early flowering pure white.....	1.50	Yellow Wonder Improved. Extra early yellow.....	1.50
		Standard Early Mixed. All varieties.....	.75

with Better Seed

OUT-DOOR VARIETIES

(175,000 seeds per oz.)

In areas where Snapdragon rust is a problem, we recommend the rust-resistant varieties for outdoor growing. Not only are they highly resistant but are likely to be more true to type. An early February sowing of the longer stemmed varieties will produce a fine crop of flowers early summer out-doors. Don't overlook the Nanum class for bedding; Gloria is an especially choice variety.

BALL TEN BEST

According to our trials these varieties are the finest in their color classes. ALL ARE RUST-RESISTANT.

- ***Cherry Red.** (Majus Grand.) A bright, rosy cerise-red with some color variation.
 - ***Copper Queen.** (Maximum) Shades of bronzy copper; long stemmed and attractive.
 - ***Rosalie.** (Majus Grand.) A rich deep rose; fine for cutting. Our most popular summer Snap.
 - ***Pinkie.** (Majus Grand.) A lighter rose shade than Rosalie; very fine.
 - ***Alaska.** (Maximum) The best long stemmed clear white variety for cutting.
 - ***Canary Bird.** (Maximum) Long stemmed clear light yellow. Good cut-flower type.
 - ***Yellow Jacket.** (Majus Grand.) An exceptionally attractive deep rich yellow.
 - ***Swingtime.** (Maximum) Fine medium-light pink with white throat.
 - ***Maximum Crimson.** A warm deep glowing crimson; valuable for cutting.
 - ***Red Cross.** (Maximum) Velvety crimson with yellow lip and white tube.
 - ***Improved California Mixture.** A carefully blended formula made up by ourselves of the above varieties.
- Prices above eleven, each: Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$2.80.

STANDARD SUMMER SNAPS

- TETRAPLOID.** Giant Ruffled "Tetra." This race of Snapdragons has larger cells with double the ordinary number of chromosomes. Because of these larger cells the spikes are more full with larger, thicker ruffled florets, more durable foliage and heavier stems. All colors are represented in this well balanced mixture. Tr. pkt., 50c; 1/16 oz., 90c; 1/8 oz., \$1.60; 1/4 oz., \$2.90.
- MAXIMUM.** The strong growing, long stemmed type for cutting.
- Appleblossom.** (Rust Res.) Pink with white tube.
 - Campfire.** (Rust Res.) Bronzy scarlet.
 - ***Copper King.** (Rust Res.) Fine copper-scarlet.
 - Daffodil.** (Rust Res.) Canary yellow.
 - Loveliness.** (Rust Res.) Shades of light pink.
 - ***Yellow Giant.** (Rust Res.) Rich yellow.
 - Mixture.** (Rust Res.) Choice colors.
- Prices above seven, each: Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$2.80.



Snapdragon Nanum Grand. "Gloria" in our out-door trials.

- MAJUS GRANDIFLORA.** Not quite as long-stemmed as the Maximums, but long enough for good cut flowers. Large-flowered.
- ***Buttercup.** (Rust Res.) Long-stemmed, medium yellow.
 - Shasta.** (Rust Res.) Creamy white.
 - Harmony.** Apricot-pink shades.
 - Orange Shades.** (Rust Res.) Unusually attractive.
 - Padre.** (Rust Res.) Brilliant crimson.
 - ***Hybrid Mixture.** (Rust Res.) A carefully balanced mixture.
- Prices above six, each: Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$2.80.
- MAJESTIC.** Extra large flowered with medium long stems.
- Fair Lady.** Clear light peach pink; uniform.
- Golden Dawn.** Light golden bronze.
- ***Rose Sensation.** (Rust Res.) A fine shade of light pink.
 - Mixture.** (Rust Res.)
- Prices above four, each: Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$2.80.
- NANUM GRANDIFLORUM.** The dwarf class for bedding.
- ***Gloria.** (See photo above.) This was the most outstanding Snapdragon in our trial grounds last year. Uniformly dwarf and bushy in habit with freely produced deep rose pink flowers. True stock. Tr. pkt., 50c; 1/8 oz., 85c; 1/4 oz., \$1.50; 1 oz., \$5.00.
 - Golden Queen.** Rich golden yellow. Tr. pkt., 50c; 1/8 oz., 85c; 1/4 oz., \$1.50; 1 oz., \$5.00.
 - ***St. George.** Flashing orange cerise. Tr. pkt., 35c; 1/8 oz., 60c; 1/4 oz., \$1.00; 1 oz., \$3.00.
 - Mixture.** (Rust Res.) Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.
- TOM THUMB Magic Carpet.** An attractive mixture of colors in this extra dwarf class. (4 to 6 in.) Tr. pkt., 50c; 1/8 oz., 85c; 1/4 oz., \$1.50; 1 oz., \$5.00.

(350 seeds per oz.) Summer Sweet Peas

This is the original strong growing class so largely used for summer flowering. We have for years found them profitable for outdoor cutting by sowing not later than February 1st, placing 3 or 4 seedlings in a 3 in. band or pot and after hardening them in an outdoor frame, planting them out. This is done in 3 ft. spaced rows, the pot plants spaced about 8 in.; but before doing so, syringe and fumigate very thoroly, being sure they are clean of aphids.

Usually they should be sprayed for aphids every 2 weeks until they flower. Failures are frequently due to not watching this point. With us they usually reach a height of 4-5 ft. and are supported with wire and string as indoors. Water should be applied when necessary. With us, such a start flowers freely the last two weeks of June.

The Spring Flowering Cuthbertson varieties (listed on opposite page) are being increasingly used for outdoor planting because of their earliness combined with good stems, and we suggest at least a trial planting of them alongside your Lates.

BALL TEN BEST

- ***Pinkie.** Finest large flowered rose-pink; long-stemmed and a heavy producer.
- ***Snow White.** The finest clear white; black seeded. Improves Gigantic in vigor of growth and flower size.
- ***Ball Shrimp Pink.** A pleasing soft shrimp pink. Vigorous growth and long stems make this outstanding.
- ***King Lavender.** Exceptionally fine clear even lavender with long strong stems. Excellent growth.
- ***Windsor Blue.** A supremely fine mid-blue. Its clear even color, stem length, and flower size set it apart.
- ***Welcome.** An intense sunproof scarlet of vigorous growth. Fine flower size and stem and a heavy producer.
- ***Maytime.** A bright golden cerise with large flowers and long stems.
- ***Olympia.** A rich mauve; similar in color to the winter flowering variety, Triumph.
- ***Stylist.** Large flowers of clear deep salmon rose-pink.
- ***Sweet Afton.** Strong growing clear bright pink. An excellent variety.
- ***Ball Best Mixture.** Composed only of the best varieties in proportion to their commercial value.

Prices above eleven, each: ½ oz., 20c; 1 oz., 30c; 4 oz., 90c; 1 lb., \$2.90; 5 lbs., \$12.50.



Mr. Frank Cuthbertson and his new Cuthbertson type of Spring Flowering Sweet Peas as they grow in California. (See next page).

STANDARD VARIETIES

- Ambition.** Rosy lavender.
 - Amethyst.** Fine clear lilac-blue.
 - ***Bonny Briar.** Bright rose pink.
 - ***Chinese Blue.** Good clear medium blue.
 - Constance Hinton.** Black-seeded white.
 - ***Ecstasy.** Attractive light salmon or shrimp pink.
 - Flagship.** Deep brilliant navy blue.
 - ***Gigantic.** Excellent, pure white; black seeded.
 - Headlight.** Sunproof orange scarlet.
 - ***Highlander.** Fine large lavender.
 - Miss California.** Large salmon rose.
 - Powerscourt.** Strong growing, standard lavender.
 - ***Red Rover.** Deep crimson (same as Redwood in Earlies).
- Prices all above, each: ½ oz., 20c; 1 oz., 30c; 4 oz., 90c; 1 lb., \$2.90; 5 lbs., \$12.50.
-
- Florists' Mixture.** A well-balanced mixture of all colors in the late-flowering class, predominating in good cut-flower colors. 1 oz., 25c; 4 oz., 75c; 1 lb., \$2.25; 5 lbs., \$10.00.

Spring Flowering Peas (350 seeds per oz.)

New Cuthbertson Strain

For greenhouse sowing between October and February, we find this new strain superior to the Early or Winter class. While their stronger growth makes them a week or 10 days later flowering, they are generally longer stemmed and last longer into the spring than the weaker growing Earlies. They are also increasingly used for outdoor planting, being somewhat earlier than the Summer class.

***Janet** (Formerly *Black Seeded White*). Large frilled flowers of pure white are carried on long heavy stems.

***Carol** (New). Clear pink on white ground.

Evelyn (Formerly *Salmon Cream Pink*). Extra long stemmed, soft salmon pink.

***Lois** (Formerly *Rose Pink*). Similar in color to "Ball Rose Queen" in the Winter class.

Billy (Formerly *Light Carmine*). Bright cerise rose on salmon.

***Coline** (New). Vivid, intense scarlet.

Hazel (Formerly *Light Blue*). "Princess Blue" shade.

***Tommy**. (Formerly *Blue*). A clear mid-blue about the color of "Mrs. Hoover" in the Winter class.

Danny (Formerly *Navy Blue*). Brilliant deep marine blue.

***Frank G.** (Formerly *Lavender*). Fine soft rosy lavender. Named for the originator of the new Cuthbertson strain.

***Jessie**. (Formerly *Mauve*). Closely resembles Winter Flowering "Triumph" in its rich coloring.

Prices on Above Spring Flowering Cuthbertson Varieties: $\frac{1}{2}$ oz., 35c; 1 oz., 65c; 4 oz., \$2.00; 1 lb., \$6.50.

***Mixture**. A mixture balanced according to demand for each color. $\frac{1}{2}$ oz., 30c; 1 oz., 55c; 4 oz., \$1.65; 1 lb., \$5.50.

WINTER FLOWERING VARIETIES

(350 seeds per oz.)

While we prefer the Spring Flowering for late greenhouse planting, the Winter class does flower earlier and in some sections are preferred even for outdoor planting. This class has been a specialty with us for over 40 years.

OUR TWELVE BEST

***Ball Blue Supreme**. The same rich blue color as Mrs. Hoover, but larger flowered and a better producer.

***Ball Orange Supreme**. CROP FAILURE. Substituting with Ball Orange Imp. until August 1948.

***Ball Rose Queen**. Extra long stemmed and large flowered clear rose pink. One of the finest commercial varieties.

***Ball Rose Supreme**. Large wavy flowers of bright silvery rose pink. Good stems and free flowering.

***Hiawatha**. Fine deep rose; a warm, rich color for spring.

***Twilight**. A bright clear lavender. Considered by many as an improvement over Harmony.

***Triumph**. Long stemmed, rich lilac mauve; very well liked on most markets.

***Princess Blue**. Large flowered, light blue; very attractive.

***Ball White**. The finest long stemmed pure white; white seeded.

***Ball Salmon**. Fairly deep salmon pink; an excellent producer.

***Treasure Island**. Large, wavy orange scarlet flowers.

***Fiesta**. The finest red in early peas.

***12 Best Mixture**. Our own formula mixture of the above varieties.

Prices all above, each: $\frac{1}{2}$ oz., 30c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.50.

GENERAL LIST

American Beauty. American-Beauty rose.

Amethyst. Rich bright mauve-purple.

Apollo. Salmon-cerise; fine for spring.

Attraction. Long-stemmed salmon rose.

***Bacchus**. Deep maroon-purple. Large flowered.

Blue Danube. A clear deep blue.

Boon. Deep salmon-rose.

Bridesmaid. Delightful silvery pink. Large flowered.

***Daphne**. Soft salmon-pink on cream. Large flowered.

Eileen. Rich Begonia rose.

Fragrance. Clear lavender for spring flowering.

***Gardenia**. Finest long-stemmed pure white for spring.

Harmony. Standard early flowering lavender.

Heather Bell. Pleasing orchid-lavender. Rather small flowered.

***Hiawatha**. Strong growing, large flowered, fine deep rose.

***Hope**. Fine black-seeded white.

Jeanne Mamitsch. Clear rose; long stemmed.

Josie. Rose pink; rather small flowered.

***Laddie Imp**. Long-stemmed fairly light rose pink.

Majestic Rose. Fine large-flowered pink.

Michigan. Clear lavender.

***Mrs. Hoover**. Standard early mid-blue.

***Mother Machree**. Large coral rose flowers; semi-duplexed.

***New Ball Rose**. Free flowering, rich deep rose.

Oriental. Black-seeded cream.

Pride. Extra long-stemmed brilliant cerise.

***Redwood**. Large-flowered, deep velvety crimson.

***Rhapsody**. Attractive deep rosy lavender.

***Rhumba**. Excellent salmon cerise for spring.

Sequoia. Large flowered standard salmon rose.

***Signal Red**. Long-stemmed brilliant red.

***Sparks**. The finest poppy scarlet.

Sunray. Light cerise; long stem.

***Tahoe**. Fine mid-blue for spring flowering.

Titania. Extra large flowered deep rose; heavy stems.

***Top Hat**. Deep bright violet-blue.

***Tops**. Extra large, wavy flowered, light salmon rose.

Top Sergeant. Deep crimson red without purple shading.

***White Harmony**. Similar to Hope; black-seeded.

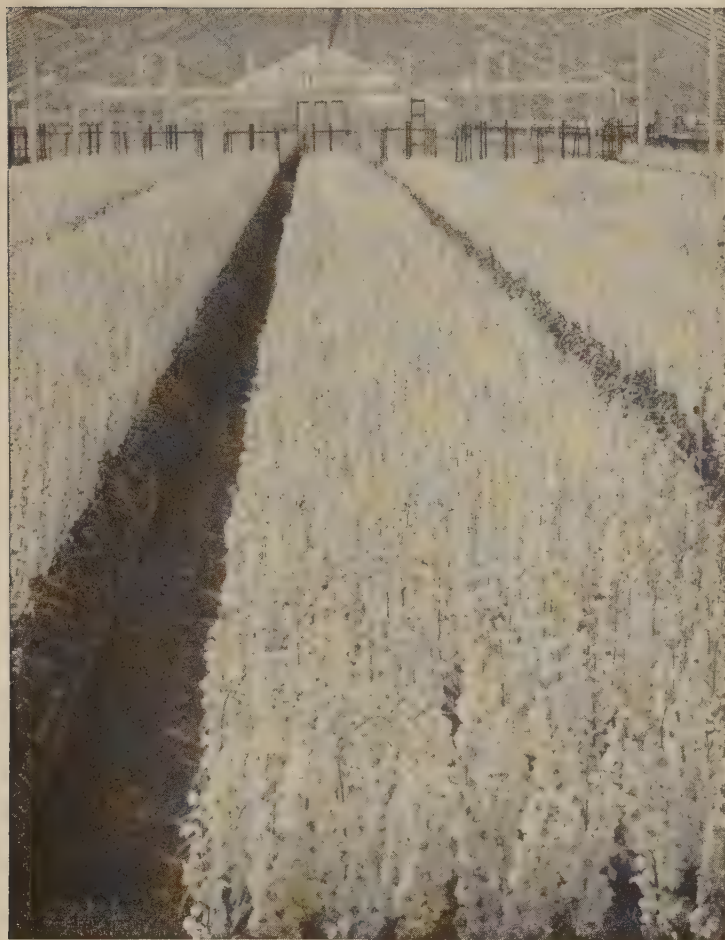
Prices all above, each: $\frac{1}{2}$ oz., 30c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.50.

Ball Early Mixture. Carefully balanced mixture of winter varieties. $\frac{1}{2}$ oz., 25c; 1 oz., 45c; 4 oz., \$1.35; 1 lb., \$5.00.

Non-
Branching

BALL STOCKS

(18,000 seeds
per oz.)



Our Easter crop of Stocks, Ball White No. 16.

The ease with which good quality Non-Branching Stocks are grown, if soil has been properly sterilized, must not be overlooked. In the latitude of Chicago, seed may be sown until February 15 for early June flowering; later sowings usually result in more or less blindness. Note, however, that the season advances approximately one week for every 200 miles south—figure accordingly.

We issue a leaflet which treats in considerable detail the experience we have gained in growing this crop for the past 18 years. We'll gladly send you a copy for the asking.

OUR BIG THREE

These three varieties constitute over half of our demand for Non-Branching Stocks.

***No. 16 Ball White Improved—Medium Tall.** Our finest early pure white, with extra large florets, and well-formed, compact spikes.

***No. 1 Lilac Lavender.** Our own excellent large flowered strain, well-liked by all markets. Fine for Memorial Day at which time this color is usually short.

***No. 22 Ball Supreme.** Extra long, stiff stems and fine heavy spikes of rich silvery rose have made this the outstanding variety in its color class.

WHITE VARIETIES

***No. 15 Ball White Improved.** Long stemmed pure white. **Gardenia.** Late flowering white; not entirely non-branching.

No. 5 Ball Dwarf White. The dwarf non-branching plants carry one compact, pure white spike resembling a Hyacinth, and are ideal for pot plant use.

PINK, ROSE AND RED VARIETIES

No. 11 Ball Pink. Early flowering medium light pink.

***No. 14 Ball Rose Pink.** Fairly deep, bright rose pink.

No. 9 Chamois Pink Improved. Attractive buff and pink.

No. 6 American Beauty. Deep American Beauty rose.

No. 7 Malmaison Pink. Blush pink; branches slightly.

No. 8 Ruby. Long stemmed, rich crimson red.

LAVENDER, BLUE AND PURPLE VARIETIES

No. 3 Ball Blue. A medium lavender mauve. Somewhat lower in percentage of doubles than other varieties.

***No. 21. Purple Heart.** Long stemmed bright violet purple.

No. 23 Pastel Lavender. Pale lavender.

MISCELLANEOUS VARIETIES

***No. 20 Ball Apricot.** Popular, large flowered creamy buff.

No. 24 Deep Apricot. Slightly darker than the above.

No. 17 Gold Standard. Creamy ivory yellow.

No. 10 Mixture. Our own formula mixture of all varieties.

Prices on All Non-Branching Varieties as Follows:

½ Tr. pkt., 60c; Tr. pkt. (about 1,200 seeds), \$1.00; ¼ oz., \$2.50; 1 oz., \$9.00.

BRANCHING STOCKS

GIANTS OF CALIFORNIA

Golden Gate. Soft, creamy yellow.

Monterey. A clear bright pink.

***Pacific.** Fairly dark lilac-mauve.

Santa Barbara. Chamois or buff.

***Santa Maria.** Best branching white.

***Tahoe.** Clear lavender.

***Yosemite.** Rich rose pink.

Prices above 7, each: Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.50.

Mixture of all colors in this fine class.

Tr. pkt., 35c; ¼ oz., \$1.15; 1 oz., \$4.00.

PERPETUAL BRANCHING

***Empress Augusta Victoria.** Silver lilac. Mixture.

Prices above 2, each: Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.65.

IMPROVED BISMARCKS

Antique Copper. Fine copper red.

Apple Blossom. Pale, delicate pink.

Blood Red. Bright ruby red.

***Chamois.** Clear chamois or buff.

***Elk's Pride.** Rich purple.

Flesh. Pale coral pink.

Golden Ball. Ivory yellow.

***Lavender.** Clear lilac lavender.

Lilac. Fairly deep lilac blue.

***Rose.** Fine bright rose pink.

***Shasta.** Giant-flowered white.

Formula Mixture of above colors.

Prices above 12, each: Tr. pkt., 35c;

¼ oz., \$1.15; 1 oz., \$3.50.

BEAUTY OF NICE

Cote D'Azure. Light lavender-blue.

Flesh Pink. (Beauty of Nice).

Mont Blanc. Extra early pure white.

Queen Alexandra. Fine rosy lilac.

Mixture.

Prices above 5, each: Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.65.

DWARF TEN WEEK

Blood Red Carmine-Pink Lavender

Canary-Yellow Deep-Rose Purple

White Formula Mixture

Prices above 8, each: Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.00.

ANNUAL LARKSPUR

(8,000 seeds per oz.)

Larkspur, because of its bulk and weight, is essentially a locally grown crop and market growers of this item will have little competition from stock shipped any great distance. A January sowing of Larkspur will flower about May, depending on temperatures. While it is sown outdoors to advantage in the fall, spring sowings do about as well if sown the first day the ground can be prepared. To draw up long stemmed flowers, use fairly enriched deep soil and water when quite dry. Besides its use in the fresh state, we are told it can be dried. Place in water for a few hours and hang upside down in dry, dark storage.

STOCKED FLOWERED VARIETIES

Dark Blue. Rather deep violet-blue.
***Lilac Supreme.** A clear deep lilac.
***Mauve Beauty.** Med. lavender mauve.
***Rosamond.** Excellent, deep rose.
Los Angeles. Bright salmon-rose.
Rose Queen. Attractive rose-pink.
Sky Blue. A light blue.
***Tempest.** Brilliant deep blue.
White. Prefer White King.
Formula Mixture of above varieties.
Prices all above Stock-Flowered varieties, each: Tr. pkt., 25c; 1 oz., 95c; 4 oz., \$3.20; 1 lb., \$9.60.

GIANT HYACINTH FLOWERED

Produces one long non-branching spike.
Dark Blue **Lavender** **Pink**
Purple **White** **Mixed**
Prices all above Hyacinth-Flowered varieties, each: Tr. pkt., 35c; 1/4 oz., 50c; 1 oz., \$1.60; 4 oz., \$5.20; 1 lb., \$16.00.

LONG STEMMED SUPER MAJESTICS

Extra vigorous growth with long stems and long spikes of fully double flowers are the important points about this new strain. For outdoor growing, the 20% additional length of this new class is a distinct advantage. Equally valuable for greenhouse culture.

BASE BRANCHING or IMPERIAL VARIETIES

Our 6 Best

Our own market experience as well as seed demands, indicate that these represent the most satisfactory Imperial varieties.

***Blue Bell.** Clear mid-blue; excellent.
***Blue Spire.** Deep violet blue.
***Brilliant Rose.** Intense, luminous rose.
***Sweet Lavender.** Clear, even lavender.
***Rosalind.** Shatter-proof, salmon pink.
***White King.** Finest pure white.
***6-Best Mixture.** A formula mixture of these 6 varieties.

Other Imperial Varieties

Carmine King. Variegated carmine-rose.
***Coral King.** Pleasing, soft coral rose.
Dazzler. Rich carmine-scarlet.
***Exquisite Pink Imp.** Fine soft pink.
Gloria Imp. Extra fine, deep rose.
***Lilac King.** Rich, deep bluish-lavender.
***Lilac Queen.** Deep orchid; lighter and rosier than Lilac King.
Los Angeles Imp. Bright salmon rose.
Miss California. Pleasing, salmon pink.
Pink King. Attractive, soft light pink.
***White Cockade.** Fine, fully double pure white flowers.
White Spire. Clear white.
***Formula Mixture** of above varieties.
Prices all above Imperial varieties including the Six Best, each: Tr. pkt., 25c; 1/4 oz., 40c; 1/2 oz., 65c; 1 oz., \$1.10; 4 oz., \$3.60; 1 lb., \$11.00.

***Deep Salmon Pink (New).**
***Rose Pink.** Rich, creamy rose-pink.
***Lavender.** Medium, rosy lavender.
***White.** Large flowered, pure white.
***Mixture** of above colors.
Prices all above Super Majestic varieties, each: Tr. pkt., 35c; 1/4 oz., 50c; 1 oz., \$1.50; 4 oz., \$5.00; 1 lb., \$15.00.



Larkspur is invaluable for basket and bouquet work; easily grown, too.

BALL CALENDULA

Developed by us 29 years ago, they continue the only cut-flower class.

(3,000 seeds per oz.)

BALL GREENHOUSE Varieties

This long stemmed class will flower freely during the spring months from a January sowing.

***Ball Improved Long Orange.** The longest stemmed and largest flowered variety. Bright golden orange with light eye.
***Ball Masterpiece.** Deep glowing orange with dark eye.
***Ball Lemon Queen.** Lemon yellow with dark brown eye.
***Ball Gold.** Deep golden yellow with light eye.
Ball Long Orange. Extra deep, intense orange. Light-eyed.
Ball Apricot. Our own strain of this dark-eyed, buff variety.
Campfire. Popular deep orange.
Prices above 7, each: Tr. pkt., 40c; 1/4 oz., 60c; 1 oz., \$2.00; 2 oz., \$3.50; 4 oz., \$6.50.

***Ball Formula Mixture.** Carefully made up of our named varieties with fully half orange.
Ball Art Shades Mixture. Contains many original and unusual shades and interesting bi-colors.
Prices above 2, each: Tr. pkt., 35c; 1/4 oz., 50c; 1 oz., \$1.50; 4 oz., \$5.00.

DWARF BEDDING Varieties

Showy for bedding where summer heat is not excessive.

Lemon Queen. Light lemon yellow.
***Orange King.** Deep orange with dark eye.
***Ball Bedding Mixture.** Well proportioned dwarf mixture.
Prices above 3, each: Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 85c; 4 oz., \$2.40; 1 lb., \$7.00.

BALL BEGONIAS

FIBROUS ROOTED

Ever examine the Begonia seed you buy under a magnifying glass? All Begonia seed we sell is grown in our own greenhouses and triple cleaned by hand, insuring more *good* seed and less dust in every packet. Remember, when comparing prices, that it's *plants* per packet that really counts. Seed may be sown at any time, but a January sowing will produce choice plants for spring combinations or bedding.



Fibrous-Rooted Begonias, by the nature of their growth, divide themselves readily into the three types pictured here; dwarf, intermediate and tall.

DWARF CLASS

***Ball Red.** Fairly dwarf in growth and of uniform, perfectly rounded habit. The plants are literally covered with medium large flowers of bright scarlet red with no rose shading. Because this variety, as well as its parent King of the Reds, is somewhat less resistant to a form of rot than most others, care must be used to control soil moisture and humidity especially when plants are small. Watering should be done only in the mornings of bright days. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

***Ball Deep Rose.** Identical in habit to Adeline from which it was selected. Under winter and spring conditions the color is a deep rich rosy red which gradually fades to a bright luminous pink with the coming of warmer weather. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

***Ball Dwarf Carmen (New).** Dwarf and compact with rich bronze leaves and light pink flowers. Tr. pkts. only, \$1.00.

***Adeline.** Extra free flowering bright pink; dwarf and compact. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

***Ball White.** We find this the finest white for pot plant use. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

***Luminosa Compacta.** Extra dwarf, free flowering scarlet red. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$3.00; $\frac{1}{32}$ oz., \$5.50.

Dwarf Varieties Mixed. Our own formula mixture of dwarf varieties. Fine for combinations. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

INTERMEDIATE CLASS

***Carmen.** The original bronze-leaved Begonia; bright rose-pink flowers. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

***Fire Sea (Blaze of Fire).** Large fiery red with green foliage. Tr. pkt., \$1.00; $\frac{1}{64}$ oz. \$2.25; $\frac{1}{32}$ oz., \$4.00.

***Indian Maid.** Foliage a deep lustrous bronze with contrasting scarlet flowers. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

***King of the Reds.** Free flowering rose red; vigorous but compact in growth. See "Ball Red" description for special cultural notes on this variety. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

***Luminosa.** Very attractive and popular scarlet red. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$3.00; $\frac{1}{32}$ oz., \$5.50.

Prima Donna. Medium rose pink. Prefer Scandinavia Pink. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.

***Scandinavia Pink.** Very free flowering bright rose pink. Fine bushy pot plant habit. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

***Scandinavia Red.** Identical to the above except for its bright carmine scarlet flowers. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Scandinavia White. A white Scandinavia selection. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

Intermediate Varieties Mixed. Our own mixture made up of the above separate colors; carefully blended. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.

TALL CLASS

Christmas Cheer. Large flowered deep crimson rose. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.25.

Glory of Erfurt. Medium rose shades. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.25.

Masterpiece. Extra large flowered, clear pink. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

***Pink Radio.** Extra large flowered rich glowing rose. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

***Silver Wings.** Extra large pure white flowers with bright green foliage. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.25.

Tall Varieties Mixed. A formula mixture of the above strong growing sorts. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.50.

TUBEROUS ROOTED BEGONIAS

***Tuberous Rooted Double Mixed.** Gorgeous colors with 80 to 90% good doubles. Tr. pkt. (1000 seeds or more), \$2.50.

Tuberous Rooted Single Mixed. Attractive shades of orange, rose, scarlet, etc. Large flowered. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

***Lloydii Mixed.** Nice 4 in. plants of this graceful pendulous Begonia can be grown in 6 or 7 months from seed. Double flowers, about 2 in., in shades of scarlet, rose, salmon and white. Tr. pkt., \$3.00.

DELPHINIUM

(10,000 seeds per oz.)

THREE FINE GIANT PACIFIC HYBRIDS

These three varieties are outstandingly fine and deserve to be grown by every florist who does a cut-flower business.

***Galahad Series.** The finest clear white Delphinium. Huge, double flowers borne on long spikes.

***Guinevere Series.** Fine light, pinkish-lavender with white bee.

***Summer Skies Series.** Light blue with an attractively contrasting white bee.

Prices above three, each: Tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.00; 1 oz., \$14.00.

GIANT PACIFIC HYBRIDS Court Series

***Percival Series.** Large glistening white flowers with strongly contrasting black bees. Tr. pkt., \$1.50; $\frac{1}{8}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.40; 1 oz., \$16.20.

***Blue Bird Series.** The clearest of medium blues with white bee. $2\frac{1}{2}$ in. flowers.

Black Knight Series. Deep mid-night violet. The darkest of them all.

Blue Jay Series. A brilliant true medium blue with dark bee.

Cameliard Series. A pure lavender self with white bee. Very attractive.

***King Arthur Series.** Royal violet with white bee. Exceptional flower size.

Guinevere Series. See box above.

Galahad Series. See box above.

Summer Skies Series. See box above.

Round Table Series. Contains all the above varieties with many new and interesting color types not yet introduced.

Prices all above (except Percival), each: Tr. pkt., \$1.25; $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.00; 1 oz., \$14.00.

GIANT PACIFIC HYBRIDS Regular Strains

Clear White. A very fine clear white, large double flowered hybrid Delphinium.

Blue Shades. One of our most popular strains. Mixture of light, medium and dark blue shades.

Lavender Pastel Shades. Mostly two-tone lavender combinations with brown or black bees.

Mixture. A complete mixture of all colors in this fine hybrid type.

Prices above four, each: Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.50; 1 oz., \$12.00.

MISCELLANEOUS VARIETIES

***Belladonna Improved.** (Clivedon Beauty.) A carefully reselected strain of this standard light blue. Tr. pkt., 35c; $\frac{1}{4}$ oz., 95c; 1 oz., \$2.85; 4 oz., \$10.00; 1 lb., \$35.00.

Belladonna. The original or regular strain. Tr. pkt., 30c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.20.

Bellamosum Improved. A reselected strain of this standard deep blue. Tr. pkt., 35c; $\frac{1}{4}$ oz., 95c; 1 oz., \$2.85; 4 oz., \$10.00; 1 lb., \$35.00.

***Lamartine.** Deep, bright marine blue with white eye. Outstanding for color and cut flower habit. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.75.

***Blackmore and Langdon Hybrids.** Shades of blue with contrasting bees. A fine, free-flowering, hybrid strain. Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c; 1 oz., \$2.70; 4 oz., \$9.00.

Wrexham or Hollyhock Strain. Extra large, tapering spikes. Long blooming period. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.60; 1 oz., \$5.50.

Gold Medal Hybrids. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

DELPHINIUM CHINENSIS (Annual Delphinium)

(20,000 seeds per oz.) A January sowing makes a nice late spring cut flower crop.

***Blue Mirror.** Bright navy blue flowers without spurs. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.20; 1 oz., \$3.60.

***Cambridge Blue.** The standard Belladonna-blue variety. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.60.

White Dark Blue Mixture

Prices above three, each: Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25.



Delphinium is one of the most valuable hardy perennials for outdoor cutting—also responds well to forcing. Outdoors they seem to be profitable from Canada to Florida, tho the finest flowers are produced where summer temperatures are moderate.

POPULAR ANNUALS

For Bedding and Cutting

On this and the following pages thru page 37 we have grouped, in alphabetical order, all our valuable bedding and cut flower annuals except specialties on foregoing pages. Perennials will be found starting on page 38. In selecting these varieties, we keep in mind the interest of the professional or commercial grower only, thereby giving meaning to our business—"Flower Seeds for Florists."

To better enable you to judge the amount of seed you'll need for your planting requirements we have indicated the number of seeds per ounce of all important items listed. For example: **ACROCLINIUM**—8500 S means 8500 seeds per oz. These figures must NOT be accepted as indicating the number of plants to be expected. Under favorable germinating conditions most large seeds will germinate 60 to 70 percent.

The asterisk (*) indicates varieties most dependably satisfactory in our experience and observation.

ACROCLINIUM—New Hybrids (Sensation Giants). 8500 S. An extra large semi-double strain of brightly colored straw-flowers for spring cutting. Shades of rose, pink and white. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

AGATHAEA—Coelestis (Blue Daisy). 27,000 S. Fairly tall (30 in.) and useful for cutting. Of slow germination. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c.

AGERATUM—*Golden Ageratum. (Lonas inodora.) Freely produces large clusters of Ageratum-like golden yellow flowers on medium tall (12 in.) plants. Very colorful for bedding or borders. Tr. pkt., 35c; $\frac{1}{16}$ oz., 75c; $\frac{1}{8}$ oz., \$1.35; $\frac{1}{4}$ oz., \$2.50.

MEXICANUM 200,000 S. Most seed-produced strains vary in habit but make satisfactory material for flat sales.

***Blue Bedder**. Fairly uniform in growth and color with medium sized, freely produced bright blue flowers. 4 to 6 in. This and Midget Blue are the two finest seed-produced strains we know of. Tr. pkt., 35c; $\frac{1}{8}$ oz., 85c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.50.

***Midget Blue**. Small, clear blue flowers are freely carried on dense small-leaved plants. Fairly even growth, 4 to 6 in. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.65; 1 oz., \$5.50.

Blue Ball Improved. 6 to 10 in. Large flowered strain. Tr. pkt., 30c; $\frac{1}{8}$ oz., 65c; $\frac{1}{4}$ oz., \$1.20; 1 oz., \$4.00.

Blue Perfection. 10 to 15 in. Large flower heads. Tr. pkt., 20c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.

Tall Blue. 24 in. Uniformly large-flowered, tall strain for cutting. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

Fairy Pink. Soft, rosy salmon pink flowers; dwarf and compact in growth. 4 to 6 in. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.65; 1 oz., \$5.50.

Imperial Dwarf White. 10 to 12 in. Fairly even medium dwarf, large flowered white. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.

ALOE—***Variegata** (Tiger Aloe). 2 in. pot plants of this attractive green and yellow tigersucculent can be produced in less than a year. A valuable item for florists. 100 seeds, \$1.50; 500 seeds, \$6.50; 1000 seeds, \$11.00.

Ferox (African Wart Aloe). A fast growing succulent that will produce small saleable plants in 6 to 8 months from sowing. Much faster growing than Aloe Variegata. 100 seeds, 50c; 250 seeds, \$1.00; 500 seeds, \$1.75; 1000 seeds, \$3.00.



Note the uniformity of this row of Ageratum Blue Bedder. Photo taken in our outdoor trial grounds.

ALYSSUM—90,000 S. All are delightfully fragrant and do well even in poor soils. Valuable for combinations or bedding.

***Carpet of Snow**. (Procumbens Snowcloth). Produces a very dense flat mass of white flowers, 3 to 4 in. high by 8 to 10 in. across. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c; 4 oz., \$2.25.

***Little Gem**. 5 in. Dense rounded heads of white flowers; does not spread. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., 90c; 4 oz., \$2.75.

***Violet Queen**. 5 in. Fragrant, bright violet flowers are borne on dwarf compact plants. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25; 4 oz., \$4.25.

Lilac Queen. 5 in. Same as above but light lilac. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c; 4 oz., \$2.25.

Maritimum. (Sweet Alyssum.) 10 in., medium tall strain. Tr. pkt., 10c; 1 oz., 35c; 4 oz., \$1.20; 1 lb., \$3.50. For Perennial Alyssum, see page 38.

MISCELLANEOUS ANNUALS—Continued

AMARANTHUS—Molten Fire. 23,000 S. 4 ft. attractively variegated deep red foliage. Plants do best when not transplanted and prefer dry, open locations. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00.

ANCHUSA—Blue Bird. (Capensis.) 1100 S. Attractive deep Forget-Me-Not blue flowers. 18 to 24 in. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.
For *Perennial Anchusa*, see page 38.

ARCTOTIS—Breviscapa Aurantiaca. 7700 S. 6 in. Single daisy-like orange flowers with dark centers. Tr. pkt., 35c; ¼ oz., 85c.

Grandis. 25,000 S. Single silvery white flowers with lilac shading and dark center. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00.

ASPARAGUS—750 S. We offer seed from a California specialist which germinates around 65 to 75% in a soil temperature of 70°.

Plumosus. Sprengeri.

Prices above two, each: 100 seeds, 30c; 250 seeds, 65c; 1000 seeds, \$2.00; 5000 seeds, \$9.00.

For *Baby's Breath*, see *Gypsophila*, page 29, and *Euphorbia Corollata*, page 40.

ASTERS—see pages 8 and 9.

BALSAM—3300 S. DOUBLE BUSH FLOWERING. 15 in. Because flowers are produced above the foliage this class is by far the most attractive. Even in habit.

Scarlet	Rose	White	Mixture
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Prices above four, each: Tr. pkt., 35c; ¼ oz., 70c; 1 oz., \$2.10.

Double Camellia-Flowered Mixed. 24 in. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00.

For *Bachelor Button*, see *Centaurea Cyanus*, page 24.

BEGONIAS—See page 20.

BRACHYCOME—IBERIDIFOLIA. (Swan River Daisy.) 140,000 S. 6 to 8 in. plants bearing small single flowers.

Mixture of all colors in this class. Tr. pkt., 15c; ¼ oz., 50c; 1 oz., \$1.50.

BROWALLIA—Viscosa Compacta Sapphire. 65,000 S. Compact growth with a profusion of small attractively light-eyed blue flowers. Tr. pkt., 35c; ¼ oz., \$1.00; ½ oz., \$1.85.
Speciosa Major. 1½ in. violet blue flowers are carried on 10 to 12 in. plants. The standard variety for pots. Tr. pkt., \$1.00.

CACALIA—Mixed (Tassel Flower). 56,000 S. Small, light scarlet and golden orange flowers on 30 in. stems. Free flowering and easily grown. Tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.70.

CACTUS—All Sorts Mixed. An extra choice blend of unusual varieties collected from many sources. Requires a temperature of at least 65° for satisfactory results. 100 seeds, 30c; 1000 seeds, \$2.70.

CALCEOLARIA (About 20,000 seeds per ½ oz.). *Ball Multiflora Nana Mixture (New). Large heads of medium sized flowers in brilliant reds, yellows and intermediate shades. Plants are wiry in growth with small durable leaves. Tr. pkt., \$1.00; 1/128 oz., \$2.35; ¼ oz., \$4.35; ½ oz., \$8.00.

***Grandiflora Dwarf Mixed.** Extra large flowers in unusual colors are carried on compact plants. Tr. pkt., \$1.00; ¼ oz., \$2.75; ½ oz., \$5.00.

Grandiflora Mixed. A tall growing strain of the above. Tr. pkt., \$1.00; ¼ oz., \$2.50; ½ oz., \$4.50.

***Dwarf Tigered or Spotted.** Various spotted shades of red, yellow and rosy bronze. Dwarf and compact; needs no staking. Tr. pkt., \$1.00; ¼ oz., \$2.50; ½ oz., \$4.50.

***Triumph Strain.** Medium large flowers; mostly bright reds and yellows. Tr. pkt., \$1.00; ¼ oz., \$2.75; ½ oz., \$5.00.

*Candytuft,
Giant White
See bottom of this
page for description
of this popular spring
cut flower.*



CALCEOLARIA, continued

Red Triumph. A separate color selection of Triumph, 90% true scarlet red. Tr. pkt., \$1.00; ¼ oz., \$2.75; ½ oz., \$5.00.

Indian Prince. A bright scarlet Multiflora Nana selection. Tr. pkt., \$1.00; 1/128 oz., \$2.35.

Cloth of Gold. Medium large, freely produced golden yellow flowers. Very showy. Tr. pkt., \$1.00; ¼ oz., \$2.50; ½ oz., \$4.50.

Flower Cloud. Small flowers in shades of yellow, orange and bronze. Tr. pkt., \$1.50; 1/128 oz., \$3.50.

Perennial Hybrids (Rugosa). A very small flowered type for large exhibition work and bedding. Tr. pkt., \$1.00.

CALENDULA—See page 19.

CALLIOPSIS—90,000 S. Fairly dwarf and very free flowering bedding plants.

Gold Crest. Produces large (2½ to 3 in.) semidouble golden yellow flowers with reddish brown eyes. Tr. pkt., 15c; 1 oz., 60c.

Golden Wave. (Drummondii.) 12 in. Semi-double golden yellow flowers with dark eye. Tr. pkt., 15c; 1 oz., 40c.

Dwarf Mixture. 6 to 8 in. Attractive dwarf compact mixture of red and yellow shades. Tr. pkt., 15c; 1 oz., 50c.

CAMPANULA—Annual Canterbury Bells Mixture. 50,000 S. 2 ft. An annual form of the well-known perennial, flowering 6 months from sowing. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c. For *Perennial Campanulas*, see page 38.

CANDYTUFT—9500 S.—HYACINTH-FLOWERED.

***Giant White.** (Ball Strain.) This is our own unsurpassed strain that has been especially bred for greenhouse cut-flower use. Uniform in growth and large flowered. Tr. pkt., 20c; ½ oz., 45c; 1 oz., 80c; 4 oz., \$2.65; 1 lb. \$8.50.

Miniature Gem. A nice very early flowering rock or border plant; 4 in. high. White. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.
UMBELLATA. A popular spring cut flower. Sow in January; plant out 8 x 10 in.

***Carmine**
Crimson
Flesh-pink
Formula Mixture

***Lavender (Lilac)**
***Rose Cardinal**
White

Prices above seven, each: Tr. pkt., 15c; 1 oz., 50c; 4 oz., \$1.65.

MISCELLANEOUS ANNUALS—Continued

CANDYTUFT, *Continued*

Dwarf Hybrids Mixture. An attractive 3 to 4 in. miniature Umbellata. Very early. Tr. pkt., 15c; 1 oz., 60c.
For **Perennial Candytuft**, see *Iberis*, page 41.

CARNATION—14,000 S. From an early sowing planted outdoors, preferably under cloth protection, these strains will produce a nice crop of summer Carnations for cutting. Some supporting necessary.

Marguerite Double Mixture. 15–20 in. Ours is a reselected strain of this very free flowering summer Carnation. An old favorite. Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25.

*CHABAUD'S GIANT IMPROVED STRAIN.

* Cardinal Red (Sparkler)	Deep Salmon (Aurora)	* White (Jeanne Dionis)
Crimson (Blood Red)	Flesh-Pink (Reine Rose)	Yellow (Marie Chabaud)
* Deep Rose (Rose Queen)	Salmon-Rose	Formula Mixture of all colors.

Prices above nine, each: Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$3.25.

ENFANT DE NICE. A fine standard strain.

Red	Salmon	White	Formula Mixture
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Prices above four, each: Tr. pkt., 50c; ⅛ oz., \$2.00.

For the hardy **Carnation Grenadin**, see page 39.

For **Castor Bean**, see *Ricinus*, page 34.

CELOSIA—28,000 S. One of our most easily grown and showy annuals, but must not be planted out until weather is warm. Does well even in poor soils and hot climates.

PLUMOSA. Plumed or feathery type producing spire-like branches mostly from base of plant. The dwarf varieties are widely used for bedding and as spring and summer pot plants, while the taller strains make useful cut flowers in late summer.

***Dwarf Fiery Feather.** (Pyramidalis.) 12 in. Very attractive pyramid formation with fiery red spires. The standard variety.

***Dwarf Golden Feather.** (Pyramidalis.) 15 in. Same as above but slightly taller and golden yellow.

***Dwarf Feather Mixture.** A formula mixture of the above two varieties; ⅔ Fiery Feather, ⅓ Golden Feather.

Prices above three, each: Tr. pkt., 25c; ⅛ oz., 65c; ¼ oz., \$1.25; 1 oz., \$4.00.

***Scarlet Plume.** 4 ft. Brilliant crimson-scarlet. Very colorful for fall borders and for cutting. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Golden Plume.** Tall, Same as above except a rich golden yellow. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Thompsoni Magnifica.** Ours is a fine even strain of this popular tall growing variety. Contains strikingly brilliant reds with some yellow and gold shades. This makes an excellent cut flower. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Spicata.** 5 ft. Long slender silvery rose spikes. Useful as a cut-flower or for drying. Tr. pkt., 20c; ¼ oz., 60c; 1 oz., \$1.80.

CRISTATA. The popular cockscomb type. The taller varieties provide good cut flowers in either the fresh or dried state, while the dwarf kinds make nice pot plants in summer.

Gilbert's Rose Beauty. Ruffled, ball-shaped heads, about 6 in. across, are of a pleasing rose-pink underlaid with silver. Stem length is about 3 ft. Originator's Tr. pkt. (300 seeds), 50c.

Gilbert's Maple Gold. Beautiful combs varying in color from light to dark pink, tipped with gold. Grows 2 to 3 feet high and makes an excellent cut flower. Originator's Tr. pkt. (300 seeds), 50c.



Celosia Fiery Feather —outstanding for pots or bedding.

CELOSIA, *continued*

***Empress.** (Dwarf.) 12 in. Large crimson combs with deep reddish leaves.

Glasgow Prize. (Pres. Thiers.) 12 to 15 in. Deep crimson combs set in bright green leaves.

***Dwarf Mixture.** 15 in. A choice mixture of all colors in this class with both light and dark foliage.

Prices above three, each: Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

***Royal Velvet.** An absolutely uniform strain of semi-tall "Cockscomb" Celosia. Crimson combs borne well above foliage on 24 to 30 in. stems. Tr. pkt., 25c; ¼ oz., 90c; 1 oz., \$3.00.

***Tall Mixture.** 40 in. Mixture of all colors in the tall class. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 80c.

CHILDSII. Chinese Woolflower. An attractively different type with knobs or ball-like formations on the end of each branch.

Crimson	and	Mixture
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Prices above two, each: Tr. pkt., 20c; ¼ oz., 50c; 1 oz., \$1.75.

CENTAUREA—CYANUS. (Bachelor Button or Cornflower). 6500 S. Ours are the very finest, free flowering re-selected florists' strains. Useful for spring greenhouse flowering or can be flowered outdoors in June and July from a fall sowing.

***Blue Boy.** The standard market variety.

Black Boy. Rich deep maroon. **Red Boy.** Deep carmine rose.

***Pinkie.** Attractive rose pink. ***Snowman.** Fine clear white. **Formula Mixture** of above varieties.

Prices above six, each: Tr. pkt., 15c; 1 oz., 45c; 4 oz., \$1.50; 1 lb., \$5.00.

***Early Single Blue.** Freely produces single Cornflowers of clear bright blue. Not quite as strong in growth as Blue Boy, listed above, but earlier and brighter in color. Very attractive. Tr. pkt., 30c; 1 oz., \$1.20; 4 oz., \$4.00.

Jubilee Gem. 12 to 15 in. Dwarf compact deep blue for bedding. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.00.

MISCELLANEOUS ANNUALS—Continued

CENTAUREA, *continued*

IMPERIALIS (Sweet Sultan). 7500 S. Thistle-like flowers; larger than the Cyanus type. Height 30 in.

Amaranth Red **Deep Lavender** **Brilliant Rose**
White **Formula Mixture**

Prices above five, each: Tr. pkt., 15c; ¼ oz., 30c; 1 oz., 90c.
Suaveolens (Yellow Sweet Sultan). 6700 S. Bright yellow thistle-like flowers; similar to the Imperialis type, but earlier flowering and not quite as tall (20 in.). Forces well indoors. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

AMERICANA. 2400 S. Still larger than the Imperialis. Valuable for retail growers but doesn't stand shipping well. 4 ft. Lilac, the preferred color. **White.**

Mixture of above two colors.

Prices above three, each: Tr. pkt., 15c; 1 oz., 60c; 4 oz., \$2.00; 1 lb., \$6.00.

DUSTY MILLERS. The white-leaved kinds for border work. *Cineraria Maritima* Diamond also belongs in this group.

Candidissima. 7500 S. 6 in. The slow growing kind that must be started early. Tr. pkt., 45c; ¼ oz., \$1.00; 1 oz., \$3.50.

Gymnocarpa. 7300 S. 24 in. Strong growing fern-leaved. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c; 4 oz., \$2.50.

For the hardy *Centaurea Montana*, see page 39.

For *Chinese Forget-Me-Not*, see *Cynoglossum*, page 27.

CHRYSANTHEMUM (Annual)—9000 S. A valuable cut flower "catch crop" that responds well to electric light forcing. Space at least 12 x 12 in. Germination somewhat slow and irregular.

Burridgeanum (*Carinatum*). White with crimson zone and brown eye.

Eastern Star (*Segetum*). Pale lemon, golden-zone with brown eye.

***Eldorado** (*Segetum*). Golden-yellow with brown eye.

***Northern Star** (*Carinatum*). White with yellow zone, brown eye.

Mixture of all colors.

Prices above five, each: Tr. pkt., 15c; 1 oz., 60c.

Rainbow Mixture (*Carinatum*). An outstandingly complete and brilliant mixture of annual Chrysanthemums including many entirely new shades and color combinations. Tr. pkt. 30c; ¼ oz., 60c; 1 oz., \$2.00.

***Yellowstone**. Both single and double golden yellow 2 in. flowers are freely produced on bushy plants about 20 in. tall. Our outdoor trial of this the past year made an excellent showing thru most of the summer. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

For Hardy Chrysanthemum, see page 39.

CINERARIA—An early January sowing, if kept growing right along, will make satisfactory 3 in. plants in late May for combination work, in our latitude. Sowings are made from June on for Christmas and later flowering.

Ball Copper-Scarlet. Compact small-leaved plants with medium sized, bright copper tinged, scarlet flowers. Uniform and attractive. Tr. pkt., \$1.50; ¼ oz., \$2.25.

***Berlin Market Mixed**. (*Weissensee* Strain.) 3,500 seeds per ½ oz. A fine strain producing large rounded heads of medium large flowers on compact plants. Tr. pkt., \$1.00; ¼ oz., \$1.75; ½ oz., \$3.25.

Berlin Market, Dark Crimson. A deep crimson selection without any eye. Tr. pkt., \$1.00; ¼ oz., \$1.75.

***Grandiflora Dwarf Mixed**. 3,500 seeds per ½ oz. Large flowers in a wide assortment of rich colors with contrasting large white eyes. Extra dwarf and compact growth. Tr. pkt., \$1.00; ¼ oz., \$1.75; ½ oz., \$3.25.



We grow all the Cineraria seed we sell.

CINERARIA, *continued*

Dwarf Giant Exhibition Mixture. Extra large (4 to 5 in.) flowers in a wide color range on fairly dwarf plants. For exhibition work only. Tr. pkt., \$1.50; ¼ oz., \$2.50.

Pacific Giants Mixed. Produces extra large heads of flowers mostly in shades of blue and lavender. A strong grower for 6-7 in. pots or bedding. Tr. pkt., \$1.00; ¼ oz., \$1.75; ½ oz., \$3.25.

Stellata Mixture. (Star type.) Small, free flowering strain. 24 to 30 in. tall. Tr. pkt., 75c; ¼ oz., \$1.25; ½ oz., \$2.25.

***Siter's Rainbow Strain**. 3,500 seeds per ½ oz. An excellent market strain with immense heads of medium large mostly white eyed flowers and small foliage. Tr. pkt., \$2.00; ¼ oz., \$2.50; ½ oz., \$4.50; 1 oz., \$8.00.

***Multiflora Nana, Gold Center**. 6,300 seeds per ½ oz. Attractive medium small self-colored flowers with yellow anthers. Good shipper. Tr. pkt., \$1.00; ¼ oz., \$2.00; ½ oz., \$3.50.

***Cremer's Prize Strain**. (Reselected stock.) 6,300 seeds per ½ oz. Continues to be the standard florists' strain. About half light-eyed. Tr. pkt., \$1.50; ¼ oz., \$2.25; ½ oz., \$4.00; 1 oz., \$7.50.

***No. 1 Mixture**. Consists of Cremer's Prize strain and Siter's Rainbow Strain in equal proportions. Tr. pkt., \$1.00; ¼ oz., \$2.00; ½ oz., \$3.75.

***No. 2 Mixture**. Contains ½ Cremer's Prize Strain and ¼ each Siter's Rainbow Strain and Multiflora Nana, Gold Center Strain. Tr. pkt., \$1.00; ¼ oz., \$2.00; ½ oz., \$3.75.

DUSTY MILLER

***Maritima Diamond**. 10 in. Our finest Dusty Miller. Compact even growth and very white foliage. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

CLARKIA—ELEGANS DOUBLE. 90,000 S. Popular for spring cut flower use. Sow in January and grow in shallow soil disbudbing to 2 or 3 spikes for long stemmed flowers. Don't feed and keep fairly dry after plants are about a foot high to prevent oversoft lanky growth.

Albatross. The best white.

***Brilliant**. Bright deep rose. Good market color.

***Orange King**. Excellent fully double orange-scarlet.

***Salmon Queen**. Medium light salmon-pink.

Mixture of all colors in this class.

Prices above five, each: Tr. pkt., 15c; ¼ oz., 35c; 1 oz., \$1.25.

MISCELLANEOUS ANNUALS—Continued

CLEOME—*Pink Queen. (Spider Plant.) 12,000 S. A wonderfully attractive and extra large flowered strain of the old Spider Plant. Large heads (6 to 7 in. across) of newly opened luminous rosy pink flowers fading to a clear white. Makes a heavy hedge-like row about 4 ft. tall and 3 to 4 ft. across. Tr. pkt., 30c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

COBAEA—SCANDENS. 375 S. A fine, strong growing, annual climber.

Purple. The most popular color. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

COLEUS—3,500 seeds per $\frac{1}{32}$ oz. Our greenhouse grown Coleus has gained wide favor with all who have grown it. Many use these strains in preference to cuttings because of the almost endless color variation which appeals to their customers. Fine for spring combinations.

***CORAL FLOWER**—Small bright carmine flowers, freely produced on 24 to 30 in. stems. Grown principally for the small deep coral seed capsules that are really more attractive than the flowers. Tr. pkt., 30c; $\frac{1}{16}$ oz., 75c; $\frac{1}{8}$ oz., \$1.40.

COSMOS—SENSATION. 5000 S. The most satisfactory class of Cosmos to grow for cut flower purposes. Extra large flowered and extremely early, making it suitable for growing outdoors even in northern climates. Our strains as listed below are very true to color.

***Pinkie.** Clear rose pink.

***Purity.** Extra large flowered pure white.

***Mixture** of above and other shades.

Prices above three, each: Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.15.



***Rainbow Mixture.** Our own strain of larger leaved Coleus containing many unusual pastel pink and salmon shades as well as striking scarlet and gold combinations. Pictured here is our own greenhouse-grown seed crop of this fine mixture. Tr. pkt., 75c; $\frac{1}{32}$ oz., \$1.80; $\frac{1}{16}$ oz., \$3.25.

***Radiance** (All America Silver Medal 1948). This is a striking new color combination never before seen in Sensation Cosmos. Deep rose petals with large, rich crimson eye.

***Dazzler.** Bright crimson red. This is a marked improvement over strains previously offered.

Prices above two, each: Tr. pkt., 20c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.60.

EARLY SINGLE MAMMOTH FLOW-ERED. 5000 S. Ours are re-selected strains in the standard large flowered class.

Crimson Queen

Rose Queen

White Queen

Queen Mixture of above colors.

Prices above four, each: Tr. pkt., 15c; 1 oz., 60c.

EXTRA EARLY DOUBLE CRESTED. 5000 S. Produces around 60% large crested flowers.

Mixture. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.

GIANT FLOWERED LADY LENOX. 5000 S. The extra large flowered late blooming class.

Pink White Mixture

Prices above three, each: Tr. pkt., 15c; 1 oz., 40c.

Hybrida No. 5. The medium sized leaves are a rich combination of deep mahogany red and bright carmine rose. And we find it comes around 80% true. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.00.

***Giant Exhibition Mixture.** An extra large leaved strain with exceptional brilliance of coloring. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.25; $\frac{1}{16}$ oz., \$4.00.

Ball Copper Giant. Produces large leaves of a pleasing copper rose shade and comes about 75% true to type. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.00.

Glory of Vichy. A popular strain predominating in the lighter, more golden shades. Tr. pkt., 60c; $\frac{1}{32}$ oz., \$1.50; $\frac{1}{16}$ oz., \$2.50; $\frac{1}{8}$ oz., \$4.00; $\frac{1}{4}$ oz., \$7.00.

HYBRIDA KLONDYKE. 2800 S.

Orange Flare. Very early and free flowering and a fine bright orange. Blooms same time as the Sensation type. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.

***Orange Ruffles.** An attractive semi-double; the same bright orange as Orange Flare but even earlier flowering and slightly dwarfed. Blooms very profusely and is uniformly true to type. Tr. pkt., 15c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.00.

***Yellow Flare.** A bright clear yellow. Similar to Orange Flare in its early and very free flowering habit, and vigorous growth. Tr. pkt., 15c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.00.

MISCELLANEOUS ANNUALS—Continued

CYCLAMEN, *continued*

	100 Seeds	1000 Seeds
No. 24B Roseum Oculatum. Light pink, salmon eye	\$2.20	\$18.00
No. 25B Sylphide (New). Light mauve	2.20	18.00
No. 30B Mixture of above colors	1.65	15.00
No. 50B Ruffled Lavender	2.30	21.00
No. 51B Ruffled Salmon	2.30	21.00
No. 52B Ruffled White	2.30	21.00
No. 53B Ruffled Dark Red	2.30	21.00
No. 60B Mixture of ruffled types	2.30	21.00

BURGHARD'S COLORADO STRAIN

The following varieties are grown for us in Colorado by E. W. Burghard, Cyclamen specialist, where dry air and cool temperature are ideal for properly maturing this seed.

	100 Seeds	1000 Seeds
No. 1 Dark Blood-Red	\$1.75	\$16.00
No. 2 Bright Red	1.75	16.00
No. 3 Pure Rose	1.75	16.00
No. 4 Soft Rose with carmine eye. (Improved Rose of Marienthal) ..	1.75	16.00
No. 5 White with carmine eye.....	1.75	16.00
No. 6 Pure White	1.75	16.00
No. 7 Bonfire. Brilliant salmon	2.25	20.00
No. 8 Salmon-Scarlet. (America Imp.) ..	2.30	21.00
No. 9 New Salmon-Rose Imp.	2.25	20.00
No. 10 Glory of Wandsbek. (Perle of Zehlendorf.) Dark salmon..	2.20	18.00
No. 11 Rose of Zehlendorf. Light salmon ..	2.20	18.00
No. 12 Orange Beauty. Orange-vermillion ..	2.30	21.00
No. 14 Morning Red	2.20	18.00
No. 16 Saffron Red-Silver Edged	2.25	20.00
No. 17 Striped Varieties Mixed	2.20	18.00
No. 18 Mozart. Deep pink.	2.30	21.00
No. 19 Lavender	1.75	16.00
No. 21 Pink Pearl. Salmon-pink	2.30	21.00
No. 22 Baardse Wonder. Salmon with white border	2.25	20.00
No. 23 Salmon Carmine	2.25	20.00
No. 30 Mixture of above colors	1.65	15.00
No. 50 Ruffled Lavender	2.30	21.00
No. 51 Ruffled Salmon	2.30	21.00
No. 52 Ruffled White	2.30	21.00
No. 53 Ruffled Dark Red	2.30	21.00
No. 60 Mixture of ruffled types	2.30	21.00

VOGT'S DOUBLE-FLOWERED STRAIN

Admiration. Salmon rose with shaded eye. **Mixture**
Prices above two, each: 100 seeds, \$3.50; 250 seeds, \$7.00; 500 seeds, \$13.00; 1000 seeds, \$25.00.

CYNOGLOSSUM—AMABILE. Chinese Forget-me-not. 5000 S.

***Firmament.** Fine bushy, compact plants with freely produced small flowers of the most intense clear blue. An excellent bedding plant that stands hot, dry weather well. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.25.

***Blue Bird.** An improved upright growing type; rich bright blue. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

CYPERUS—Alternifolius (Umbrella Plant). 200,000 S. Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.40.

DAISY—Dahlberg Daisy. An unusually attractive, compact edging plant with airy lace-like leaves. Produces a profusion of small yellow flowers continuously from late spring until frost. Forms a very even row, 6 to 8 in. high and 12 to 14 in. across. Germination somewhat irregular except in spring months. Tr. pkt., 50c; ½ oz., \$1.25; ¼ oz., \$2.25; 1 oz., \$8.00.

Tahoka Daisy. Single daisy-like flowers of lavender-blue with deep yellow center are carried on medium length stems. Lacy fern-like foliage. Tr. pkt., 25c; ¼ oz., 70c; 1 oz., \$2.10.

Blue Daisy. See Agathe, page 22.

English Daisy. See Bellis, page 38.

Painted Daisy. See Pyrethrum, page 42.



Remarkable new Cosmos Radiance, described at left.

CUPHEA—7000 S. Very attractive and easily grown plants for bedding use.

***Firefly.** Dense, compact plants reaching a height of 12 in. with freely produced small bright scarlet flowers. Also makes an attractive spring pot plant. Tr. pkt., 25c; ⅛ oz., 70c; ¼ oz., \$1.25.

Avalon Hybrids. Vigorous and dense in growth; about 2 ft. tall. A fairly free flowering mixture of red, pink, lavender and purple shades. Tr. pkt., 35c; ⅛ oz., \$1.00; ¼ oz., \$1.75.

CYCLAMEN—All Cyclamen prices are net, no cash discount, 250 of a variety at 1000 rate (except Vogt's). 10,000 to 25,000 seeds, any assortment of varieties, less 5%; over 25,000 seeds, less 10%.

BAARDSE'S IMPORTED STRAIN

We have been appointed exclusive distributors in the United States for the famous Baardse Cyclamen seed, generally conceded to be the leading European strain.

	100 Seeds	1000 Seeds
No. 1B Dark Blood-Red	\$1.75	\$16.00
No. 2B Bright Red	1.75	16.00
No. 3B Pure Rose	1.75	16.00
No. 4B Soft Rose with carmine eye. (Improved Rose of Marienthal) ..	1.75	16.00
No. 5B White with carmine eye.....	1.75	16.00
No. 6B Pure White	1.75	16.00
No. 7B Bonfire. Brilliant salmon	2.25	20.00
No. 8B Salmon-Scarlet (America Imp.) ..	2.30	21.00
No. 10B Glory of Wandsbek. (Perle of Zehlendorf.) Dark salmon.....	2.20	18.00
No. 11B Rose of Zehlendorf. Light salmon..	2.20	18.00
No. 16B Saffron Red-Silver Edged	2.25	20.00
No. 19B Lavender	1.75	16.00
No. 22B Baardse Wonder. Salmon with white border	2.25	20.00

MISCELLANEOUS ANNUALS—Continued

DAHLIA—2800 S. Because of the wide variation in colors and types, seedling Dahlias are interesting to grow and tubers may be saved from the choicest specimens. The dwarf types are especially nice for outdoor bedding while the Unwin strain also makes a fine pot plant. All flower the first season from an early sowing.

***Unwin's Dwarf Hybrids.** Our strain of this popular variety is especially re-selected for evenness of dwarf habit and a wide range of attractive colors in both double and semi-double forms. Seed sown during January will produce saleable 3 to 4 in. flowering pot plants in May. Tr. pkt., 25c; ¼ oz., 70c; 1 oz., \$2.50; 4 oz., \$7.50.

Giant Flowered Mixed. The originator describes this as a choice tall mixture producing 50% giant double flowers of the very best types and colorings. Outstanding individuals may be propagated thru tubers. Tr. pkt., 50c; ⅛ oz., \$1.65; ¼ oz., \$3.00; 1 oz., \$9.00.

COLTNESS STRAIN. 18 in. Single. Dwarf and free flowering.

Mixture of all colors. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50. For Perennial Daisies, see page 39.

DELPHINIUM—See page 21.

DIANTHUS 25,000 S.—**Annual Sweet William.** (*D. barbato-sinensis*.) 12 in. Single mixed. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

***Sweet Wivelsfield Single Mixed.** 12 in. Probably the most popular of the annual Dianthus. Free flowering and brilliantly colored. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00.

Sweet Wivelsfield Double Mixed. Same as above but most flowers either semi or double. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Westwood Beauty (*D. Heddensis*). This new Dianthus, the result of a cross between *D. Heddewigii* and *D. Chinensis*, produces large 2 in. single flowers in shades of red on long stems. Somewhat more resistant to heat than ordinary Dianthus. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.80.

HEDDEWIGII. (Double Pinks). 10 in. Fine for rock garden and border work.

***Gaiety.** Large showy fringed flowers. Colors range from pure white to crimson and are attractively zoned. Tr. pkt., 35c; ¼ oz., 70c; 1 oz., \$2.35.

***Fireball.** Deep scarlet.

Pink Beauty. Blush-pink.

***Snowdrift.** Extra large flowered pure white.

Imperator Mixture of all colors in this double class.

Laciniatus Splendens. Single. Brilliant crimson; white eye.

Prices above five, each: Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.25.

For Hardy Dianthus, see page 39.

DIDISCUS—**Coeruleus.** (Blue Lace Flower.) 10,000 S. Freely produces small (1½ to 2 in.) heads of light bluish lavender flowers. Useful for spring forcing or outdoors in cool climates. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00.

DIMORPHOTHECA—**Aurantiaca Hybrids Mixed.** 9500 S. 6 to 10 in. 2 in. single daisy-like flowers in bright yellow, buff and orange shades. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

DRACAENA—**Indivisa.** 1500 S. The narrow-leaved and most popular variety. Tr. pkt., 15c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.00.

Australis. 1000 S. The broader-leaved kind. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., 90c.

For Dusty Miller, see *Cineraria* and *Centaurea*, page 25.



Gaillardia Sunshine Double Mixed is fine for summer cutting.

ECHIUM—**Blue Bedder.** 6500 S. 12 in. Very early blooming annual producing tiny bell-shaped blue flowers thruout the summer until frost. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00.

ESCHOLTZIA—**Aurantiaca.** 20,000 S. 1 ft. The true California Poppy. Rich orange. Tr. pkt., 15c; 1 oz., 50c. For Bush Escholtzia, see *Hunnemannia*, page 30.

EUPHORBIA—**Variegata.** 2500 S. The popular Snow-on-the-Mountain. Tr. pkt., 15c; 1 oz., 50c; 1 lb., \$4.00.

Heterophylla. (Annual Poinsettia or Mexican Fire Plant.) 5000 S. 36 in. Makes small Poinsettia-like formations at tips of branches. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00. For the Hardy Euphorbias, see page 40.

FELICIA—**Bergeriana** (King Fisher Daisy). 150,000 S. The dwarf blue daisy for pot plants. 6 in. Germination sometimes slow and irregular. Tr. pkt., 35c; ¼ oz., \$1.00.

FREESIA—1000 S. Seed sown in May will produce bulbs by September which will bloom the following January with good flowers and stems.

Refracta Alba. Pure white. Tr. pkt., 50c; ¼ oz., \$1.35; 1 oz., \$4.00.

Refracta Buttercup. Yellow. Tr. pkt., 50c; ¼ oz., \$2.00; 1 oz., \$6.00.

Rainbow Hybrids. Attractive mixture including blues, yellows and reds. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

For Forget-Me-Nots, see *Myosotis*, pages 27 and 42.

GAILLARDIA—**PICTA.** 14,000 S. Annual Gaillardia. Fine free flowering brightly colored material for beds or borders.

***Indian Chief.** 12 to 15 in. An even and very free flowering single strain with solid red flowers.

Lorenziana Double Mixed. 12 in. Quite attractive and free flowering double strain of orange, yellow, red and rose shades. Prices above two, each: Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00.

MISCELLANEOUS ANNUALS—Continued

GAILLARDIA, *continued*

***Sunshine Double Mixed.** Fully double flowers about 2½ in. across are carried on strong stems 16 to 18 in. long. Attractive shades of wine red, yellow and bicolor red and yellow. In our outdoor trials this past summer, this was in continuous heavy production thruout the season. Retail growers will find this a valuable and easily grown source of summer cut flowers. Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25.

For Perennial Gaillardia, see page 40.

GERANIUM—Zonale. An attractive mixture of single types in shades of white, pink, salmon and red. Easily grown from seed. Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.50.

GERBERA (Transvaal Daisy)—Jamesoni Hybrids. A long lasting and valuable greenhouse forcing crop. All colors are represented in this choice mixture of large single daisy-like flowers. 100 seeds, 50c; 1000 seeds, \$4.00.

Duplex Hybrids (New, see photo). This splendid new strain produces large 5 inch flowers with twice as many petals as the ordinary single type. All colors, except blue, are represented with flowers being carried on strong stems up to 3 ft. in length. 100 seeds, 60c; 1000 seeds, \$5.00; 5000 seeds, \$22.50.



Gerbera Duplex Hybrids, described in box at left.

GLOXINIA—2500 seeds per ⅓ oz. Sow in January for blooming plants in 4 inch pots during June and July. All Gloxinia seed is very fine and must be handled carefully.

***Panzer Strain.** This strikingly beautiful velvety scarlet Gloxinia comes almost completely true from seed. Originated by one of the leading Pacific Coast pot plant growers. Tr. pkt., \$1.00; 6 pkts., \$5.00.

Formula Mixture. Made up of choice named separate color varieties. Do not confuse this with cheap seed mixtures grown as such. Tr. pkt., \$1.00; 6 pkts., \$5.00.

CODETIA—45,000 S. Should be grown in flats or shallow benches for greenhouse culture. Handle about like Clarkia.

UPRIGHT SINGLE. This class is especially attractive and much grown for greenhouse cut flowers.

***Duke of York.** Bright carmine and white.

***Kelvedon Glory.** Rich apricot.

***Purity.** A clear white. Mixed.

Prices above four, each: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

TALL DOUBLE GRANDIFLORA.

Mixture of colors in the Tall Double class. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

DWARF DOUBLE AZALEA FLOWERED.

***Sybil Sherwood.** 18 in. Bright salmon-pink, edged white. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

COMPHRENA (Globe Amaranth)—5500 S. An attractive everlasting garden flower with some value for cutting. A fine bedder for hot, dry climates.

GLOBOSA. Round, ball shaped flowers.

Rubra. 30 in. Magenta purple. A bright deep shade.

Mixture of colors.

Prices above two, each: Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00.

***Buddy.** Dwarf compact plants with small ball-shaped flowers of bright reddish purple. Fine for bedding, pot plants or combination boxes. Better have some of this. NOT AVAILABLE—CROP FAILURE.

GOURDS, ORNAMENTAL—SMALL VARIETIES. 450 S. All are easily grown and, when properly dried and varnished, last indefinitely.

***La Montagne Strain.** 475 S. The finest selected strain of mixed Gourds we have tried. We handle originator's seed. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

Spoon. More or less spoon-shaped. Orange and white striped.

Warted Types Mixed. Not over 4 in. in diameter.

Prices above two, each: Tr. pkt., 15c; 1 oz., 50c.

GRASSES, ORNAMENTAL—Briza Maxima (Quaking Grass). Graceful panicles which tremble in the slightest breeze. 18 in. Tr. pkt., 25c; 1 oz., \$1.00.

Coix Lachrymae (Job's Tears). 3 to 4 ft. tall with hard, shiny beads up to 1 inch in diameter. Tr. pkt., 15c; 1 oz., 30c; 4 oz., \$1.00; 1 lb., \$3.00.

Pennisetum Rueppelianum (Fountain Grass). 3 to 4 ft. tall with long, graceful purple sprays. Tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.70.

GREVILLEA—Robusta (Australian Silk Oak). 3000 S. Seed sown in early spring and grown in a temperature of 60° will make nice 5 in. pot specimens by fall. Because it holds its foliage well, is being used with Poinsettias instead of Asparagus. Tr. pkt., 20c; ¼ oz., 60c; 1 oz., \$1.80.

GYPSOPHILA—ELEGANS (Baby's Breath). 24,000 S. Easily flowered in flats in the greenhouse or may be grown outdoors; requires about 3 months to bloom from sowing. Although the larger flowered varieties are attractive and fine, the smaller ones outlast them for bouquet work.

***New York Market.** A fine pure white variety. Outstanding for its large extra petaled flowers and strong growth. 1 oz., 35c; 4 oz., 90c; 1 lb., \$2.75; 5 lb., \$11.00.

***Covent Garden Market.** A very excellent strain with large and full-petaled flowers, about 75% of which have 6 to 8 petals. 1 oz., 25c; 4 oz., 75c; 1 lb., \$2.25; 5 lb., \$8.50.

MISCELLANEOUS ANNUALS—Continued

GYPHOPHILA, *continued*

***Paris Market.** Smaller flowered than Covent Market. Holds up well. 1 oz., 25c; 4 oz., 70c; 1 lb., \$2.00; 5 lb., \$8.00.

Carminea. Same as Paris Market except a bright carmine pink. Tr. pkt., 15c; 1 oz., \$1.20; 4 oz., \$4.00.

Crimson. Darker selection of the above. Tr. pkt., 15c; 1 oz., \$1.20; 4 oz., \$4.00.

For Hardy Gypsophila, see page 40.

HELIANTHUS (Sunflower). 650 S.—***Sungold.** Of uniform medium height (4 to 5 ft.) with practically 100% fully double, golden yellow Chrysanthemum-like flowers about 4 in. across. Sow outdoors in May for August blooming. Retail growers will find this a valuable summer cut flower. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c; 4 oz., \$3.50; 1 lb., \$7.50.

HELICHRYSUM—MONSTROSUM. 36,000 S. The most popular double strawflower. Widely used for drying.

Canary-Yellow	Violet Queen	Fireball (Scarlet)
Golden Globe	Rose Queen	Silver Ball (White)
Formula Mixture		

Prices above seven, each: Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00.

HELIOTROPE 50,000 S.—***Dwarf Regale Mixture.** 15 in. A fine, even, clear colored strain with extra large flower heads. Richly fragrant. Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$3.25.

Lemoine's Giant Mixture. 24 to 30 in. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.

HOLLYHOCK (Annual)—**Indian Spring.** 13,000 S. 4 to 5 ft. Starts to bloom 5 months from seed sowing and continues until frost. Semi-double light pink and rose flowers are borne mostly on central spike. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

HUNNEMANNIA—FUMARIAEFOLIA. 8000 S. (Bush Escholtzia).

***Sunlite.** Brilliant Canary-yellow, semi-double. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.65.

Single Yellow. Tr. pkt., 15c; 1 oz., 60c.

For Hardy Iberis, see page 41.

IMPATIENS—One of our most valuable plants for bedding under shady conditions; also widely used for winter and spring pot plants.

Sultani Hybrids Mixed. Ours is a choice imported strain. Tr. pkt., 50c; ½ oz., \$1.00.

Holstii Hybrids. 55,000 S. Mixture of taller growing sorts. Tr. pkt., 50c; ½ oz., \$1.00.

IPOMOEA (Moonflower or Morning Glory). These vines are easily grown and most varieties are profuse bloomers if grown in soil of low fertility and not over-watered. The three immediately following are the most popular.

***Crimson Rambler.** A fine large flowered bright carmine red with attractive white center. Vigorous and free flowering. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

***Pearly Gates.** A fine clear white Morning Glory with slight cream shading in throat. Similar to the popular Heavenly Blue in habit but not quite as early flowering. Tr. pkt., 35c; ¼ oz., 45c; 1 oz., \$1.40; 4 oz., \$5.00.

***Heavenly Blue.** 800 S. Clark's Mammoth Early Free Flowering Strain. The popular sky blue shade that is a solid sheet of vivid color all summer. Can be forced into flower for spring sales in 3 or 4 in. pots from a sowing made 8 to 10 weeks previously. Tr. pkt., 20c; 1 oz., 65c; 4 oz., \$2.00.

IPOMOEA, *continued*

Cornell. A large flowered bright Carnelian red with white edge. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

Scarlett O'Hara. 650 S. Brilliant carmine-red variety. Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.00.

Rose Marie. 1100 S. Double deep rose. Quite free and early flowering. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 80c.

Quamoclit (Cardinal Climber). 1000 S. Small red flowers freely produced. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

NOCTIFLORA. 110 S. Large flowered white moonflower.

Black-Seeded

White-Seeded

Prices above two, each: Tr. pkt., 15c; 1 oz., 40c; 4 oz., \$1.35; 1 lb., \$4.00.

KALANCHOE—*Tom Thumb. A dwarf compact strain of this popular succulent. Produces perfectly rounded symmetrical plants literally covered with bright scarlet flowers. A Jan. or Feb. sowing will provide fine 4 in. specimens for next winter's sales. Tr. pkt., \$1.25; ¼ oz., \$5.00; ½ oz., \$9.00.

Globulifera Coccinea. The original rather tall growing Kalanchoe. Should be handled the same as the above variety but its stronger growth will produce larger plants. Tr. pkt., 60c; ¼ oz., \$1.60.

***Brilliant Star.** This new hybrid Kalanchoe makes a fine pot plant producing flowers 3 times the size of the common varieties and of a brighter fiery red color. The attractive foliage is restricted to the base of the plant, permitting the development of clean stems about 7 inches long which are suitable for cutting, especially if benched. Tr. pkt., \$1.50.

KOCHIA (Summer Cypress). 45,000 S.—**Childsii.** 24 in. Stays a clean fresh green throught the entire season. Very attractive dense bushes. Tr. pkt., 10c; 1 oz., 25c.

LANTANA 1300 S.—**Dwarf Hybrids Mixed.** 12 in. Must be sown early and with bottom heat. Tr. pkt., 25c; ¼ oz., 55c.

LARKSPUR—see page 19.

LAVATERA—Loveliness. 4500 S. (Splendens) Very attractive early flowering annual, with 2 in. Hollyhock-like single flowers of a deep salmon rose shade. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00.

LEPTOSYNE—Stillmanii. 25,000 S. 18 in. Nice golden yellow for cutting. Flowers 6 to 8 weeks from seed. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00.

LINARIA—MAROCANNA. (Miniature Snapdragon).

Fairy Bouquet. 600,000 S. 10 in. Flowers very early and freely. Bright mixture of colors. Tr. pkt., 20c; ¼ oz., 45c; 1 oz., \$1.50.

LOBELIA—700,000 S. Where protection from direct sun can be given them and in not too hot climates, Lobelia are unsurpassed for bright blue and white edging, hanging and trailing work. All varieties come quite true.

COMPACTA. 6 in. Of dwarf compact habit.

***Blue Gown.** Standard free flowering deep blue. Very fine.

Cambridge Blue. Very dwarf, restricted, light blue.

***Crystal Palace.** Very dwarf deep blue with dark bronzy green foliage. A fine standard variety.

Emperor William. Deep blue with light green foliage.

***Mrs. Clibran Imp.** Deep blue with contrasting white eye and light foliage.

White Lady. Clear glistening white.

Prices above six, each: Tr. pkt., 25c; ¼ oz., 85c; 1 oz., \$3.00.

Mixture of all colors in the compacta class. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

MISCELLANEOUS ANNUALS—Continued

LOBELIA, *continued*

PENDULA. Of trailing or pendulous habit.

***Hamburgia.** Deep blue with dark green foliage. Tr. pkt., 35c; 1/8 oz., 85c; 1/4 oz., \$1.50.

Sapphire. Deep blue with white eye. Light green foliage. Tr. pkt., 35c; 1/4 oz., \$1.00.

For **Perennial Lobelia**, see page 41.

LUPINE—A good spring crop of the annual type can be flowered in 3 in. pots from a Jan. sowing spaced close so as to flower one spike to a plant. We prefer the **Giant Kings**.

GIANT KING. 1300 S. Some longer stemmed and earlier flowering than the regular **Hartwegii**.

***Oxford Blue.** Standard rich deep blue. **Sky Blue**

Heliotrope. A pleasing rosy purple shade. **White**

Mixture of above colors.

Prices above five, each: Tr. pkt., 20c; 1 oz., 80c; 4 oz., \$2.65
1 lb., \$8.00.

HARTWEGII. 1400 S. The standard cut flower strain.

Dark Blue, Roseus, Sky Blue, White Mixture

Prices above five, each: Tr. pkt., 15c; 1 oz., 75c; 4 oz., \$2.25.

For **Perennial Lupine Polyphyllus**, see page 41.

MARIGOLDS—See pages 12 and 13.

MARVEL OF PERU—(*Mirabilis Jalapa*). 325 S.

Dwarf Mixture. A uniformly dwarf (18 to 20 in.) strain of old fashioned "Four O'Clocks," Well adapted for bedding or border work and will do nicely under adverse growing conditions. Fine range of bright colors. Tr. pkt., 15c; 1 oz., 40c.

MIGNONETTE—27,000 S. May be sown in January for spring cutting; delightfully fragrant.

***Ball Strain.** Considerably whiter and 2 to 3 weeks earlier than New York Market. 1/2 Tr. pkt., 60c; Tr. pkt., \$1.00; 1/4 oz., \$1.75.

MACHET. For summer bedding.

Golden Goliath. Goliath Red

Prices above two, each: Tr. pkt., 15c; 1/4 oz., 30c; 1 oz., \$1.00.

MIMOSA—*Pudica* (Sensitive Plant). 4500 S. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.50.

MYOSOTIS (*Forget-me-not*)—***Ball Early.** 44,000 S. Free flowering, spring blooming plants of this always popular bright blue flower can be had from a sowing made as late as Jan. Our early flowering strain should not be confused with the other types listed with the perennials. Tr. pkt., 35c; 1/4 oz., 85c; 1 oz., \$3.00.

For other **Myosotis**, see perennial list, page 42.

NASTURTIUM—No retail grower should be without at least a small greenhouse planting of Double Nasturtiums. Their richly colored, long stemmed, fragrant flowers are valuable for cutting, and the dwarf type is well suited for combinations or window boxes.

DOUBLE GLEAM TYPE. 175 S. Of trailing or climbing habit. Vigorous growers; fine for cutting or window boxes.

***Golden Gleam.** The original Gleam Nasturtium; golden yellow.

***Scarlet Gleam.** Same as above but a brilliant scarlet.

***Gleam Hybrids.** A brilliant mixture of all double varieties.

Prices above three, each: 1 oz., 25c; 4 oz., 70c; 1 lb., \$2.40.



Portulaca Single Jewel has flowers twice the size of the ordinary kind. See page 33.

NASTURTIUM, *continued*

DWARF DOUBLE TYPE. 175 S. Fully as double and large as the Gleam type, the following varieties are of a very attractive dwarf compact, rounded growth. 12 to 15 in. high.

***Golden Globe.** Same color as Golden Gleam.

Scarlet Gem. Brilliant scarlet.

Mixture of all colors in this dwarf class.

Prices above three, each: 1 oz., 30c; 4 oz., 90c; 1 lb., \$2.75.

SINGLE VARIETIES. 225 S.

Dwarf Mixture of all colors in the dwarf class.

California Giant Single Mixture of colors in the tall, trailing class.

Prices above two, each: 1 oz., 20c; 4 oz., 65c; 1 lb., \$2.25.

NEMESIA (*Strumosa Suttoni*) 90,000 S.—**GRANDIFLORA.** Large flowered and long-stemmed. 14 to 16 in. Fine for spring cutting and combination work.

Mixture of all colors in this tall class. Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.50.

NANA COMPACTA. Of more dwarf habit, 6 to 8 in. Branches freely from the base, making attractive rounded specimens. Excellent for pots and short combination work.

Triumph Mixed. A very attractive mixture with a wide range of well balanced colors. Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.50.

NICOTIANA (*Flowering Tobacco*)—275,000 S. Sweet scented.

***Suaveolens** (*Orange Blossom*). 18 in. A dwarf and compact small flowered white. Tr. pkt., 25c; 1/16 oz., 85c.

AFFINIS

***Crimson Bedder.** 15 in. Makes a very compact growth and very free flowering. Deep crimson red. Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

White. 36 in. Tall and large flowered. Tr. pkt., 15c; 1 oz., 60c.

Hybrids Mixture. A hybrid mixture of many shades in the tall large flowered type. Tr. pkt., 15c; 1 oz., 60c.

MISCELLANEOUS ANNUALS—Continued

NIEREMBERGIA 5,500 S. per $\frac{1}{32}$ oz.—***Purple Robe.** In depth and richness of color this striking bluish-lilac variety represents a great improvement over the original *N. Hippomanica* (*Coerulea*). Retains its brilliance without fading under strong summer sun and is uniformly dwarf in habit. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.65; $\frac{1}{16}$ oz., \$3.00.

NIGELLA (*Damascena Double*) 11,000 S.—**Miss Jekyll** (*Love-in-a-mist*). Cornflower-blue. Tr. pkt., 25c; 1 oz., \$1.00.
Mixture. Blue and white. Tr. pkt., 15c; 1 oz., 60c.

OXYPETALUM—Caeruleum (New). An attractive bedding plant from the Argentine. Grows about 8 in. tall with fuzzy grayish green leaves and 1 in. star shaped flowers of contrasting clear azure blue. Tr. pkt., 25c; $\frac{1}{8}$ oz., 85c; $\frac{1}{4}$ oz., \$1.50.

PANSIES 25,000 S.—A January sowing of both Pansies and *Violas* will make nice flowering plants to sell out of flats or in made-up pans in late spring and early summer.

***Ball Giant Mixture.** This is our finest and most popular bedding Pansy mixture. We blend this ourselves using the best available strains of Swiss or Roggli giants, adding separate varieties to insure a good balance of colors. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$8.00; 4 ozs., \$30.00.

***Ball Giant Mixture Dwarf Strain.** A fine Roggli or Swiss Giant strain selected for dwarf and compact habit. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$8.00; 4 ozs., \$30.00.

***Maple Leaf Giants.** An excellent, extra large flowered strain. Heavy growth with good stems. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00.

***Canadian Giants.** This selection from Maple Leaf Giants contains some of the largest flowers in Pansies. Tr. pkt., 90c; $\frac{1}{8}$ oz., \$1.75; $\frac{1}{4}$ oz., \$3.00; 1 oz., \$10.00.

***Englemann's Giant Mixture.** A large flowered and brightly colored strain, many being penciled or veined. Fairly compact growth. We offer originator's seed only. Tr. pkt., 75c; $\frac{1}{4}$ oz., \$3.75; 1 oz., \$12.00.

Roggli Giant Mixture. A choice bedding strain, predominating in rich red and bronze shades. We supply only the originator's imported seed. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.00; 1 oz., \$16.00.

America. An exceptionally free flowering mixture with medium sized blooms. Dwarf and extra early. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$9.00.

Dwarf Geneva Giants. A dwarf selection of the above. Tr. pkt., 60c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$8.00.

Steele's Jumbo Mixture. We handle the originator's seed of this popular American strain. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.00; 1 oz., \$16.00.

Improved Swiss Giants. Predominates in rich bronze and red shades. Tr. pkt., 60c; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$8.00.

***Steele's Butterfly Hybrids.** Unusual color range. Originator's seed. Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$3.25; $\frac{1}{8}$ oz., \$5.75; $\frac{1}{4}$ oz., \$10.00.

***Ball Winter Flowering.** A tall growing winter cut-flower variety; at its best from a late summer sowing. Not for bedding. $\frac{1}{2}$ Tr. pkt., 60c; Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.75.

SWISS GIANTS IN SEPARATE COLORS

Firebeacon. Brick red.

***Coronation Gold.** The finest clear yellow.

***Lake of Thun.** Large flowered blue with darker center.

Alpenglow. Rich garnet red.

Rhinegold. Large flowered yellow with dark center.

Berna. Dark velvety blue.

Mt. Blanc. Best clear white in the large-flowered Swiss type.

Prices above seven, each: Tr. pkt., 75c; $\frac{1}{8}$ oz., \$1.75; $\frac{1}{4}$ oz., \$3.00; 1 oz., \$10.00.



32 different Pansy varieties are lined up here for trial.

PANSIES, continued

Giant Orange. A rich light orange; similar in color to *Viola* Apricot. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$5.50; $\frac{1}{4}$ oz., \$10.00.

PENTSTEMON (*Beard Tongue*). 55,000 S.—**Sensation Mixture.** 2 ft. attractive bell-shaped flowers produced on good spikes in an exceptional range of colors. Much used for bedding or in borders. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00.

PETUNIAS—See pages 3 to 7.

PHLOX DRUMMONDI—14,000 S. Annual phlox are among our most showy bedding items and are more popular today than at any time in their past. Because they don't transplant well, seed should be sown direct in small pots or plant bands, or drilled outside.

GRANDIFLORA. 15 to 18 in. Fine, free flowering bedding and border material. Also nice for cutting.

***Chamois Rose.** Soft pastel chamois with white center.

Coccinea. Fiery red.

Isabellina. Creamy yellow.

Lilac. Pleasing rosy lilac with white eye.

***Rosea.** Medium rose pink with dark center.

Violet. Try this with white or yellow.

***White.** A clear, even white.

Prices above seven, each: Tr. pkt., 35c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.40.

Special Mixture of all colors in this tall class. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.80.

Cuspidata Mixture (*Star of Quedlinburg*). A mixture of star shaped flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.80.

GRANDIFLORA GIGANTEA. Somewhat stronger in growth and larger flowered than the above.

***Red Glory.** A bright red with large contrasting white eye.

Rosy Morn. A particularly bright, clear rose pink with large white eye.

Salmon Glory. Rich soft salmon-rose with white eye.

Art Shades Mixture. Large flowered mixture of pastel shades with white eyes.

Prices above four, each: Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00.

MISCELLANEOUS ANNUALS—Continued

PHLOX, continued

NANA COMPACTA. 6 to 8 in. Of dwarf compact growth, fine for low bedding and border work.

***Fireball.** A real fiery crimson.

Sky Blue. Clear soft blue with white eye.

***Snowball.** Good clear white.

Violet. An attractive, rich color.

Prices above four, each: Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

Mixture of all colors in this dwarf class. Tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.80.

***Cecily Mixed.** A very popular semi-dwarf mixture. Tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.80.

For **Pinks**, see *Dianthus*, page 39.

POPPY—Iceland (P. Nudicaule). 250,000 S. The standard type for spring greenhouse forcing. Sow either direct or in pots and transplant.

The Emperor. Brilliant orange. Good flower size and long stiff stems. Tr. pkt., 25c; ¼ oz., 85c; 1 oz., \$2.50.

***Sanford's Giants.** A fine standard Hybrid strain. Brilliant color mixture. Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25.

SHIRLEY (P. Rhoëas). 70,000 S.

Sweet Briar. Deep rose pink; fully double. Tr. pkt., 15c; ¼ oz., 35c; 1 oz., \$1.00.

Formula Mixture of all colors in the single Shirley class. Tr. pkt., 15c; 1 oz., 50c.

For **Oriental Poppies**, see perennial list page 42.

PORTULACA—280,000 S. Very excellent, easily grown outdoor bedding plant. Will flower 30 to 45 days from sowing in late spring or early summer.

Single Mixture. Tr. pkt., 20c; ¼ oz., 65c; 1 oz., \$2.25.

***Double Mixture.** Special mixture of brilliant colors. Produces 85 to 90% true double flowers. Tr. pkt., 30c; ¼ oz., \$1.00; 1 oz., \$3.50.

Single Jewel. Extra large flowers of glowing crimson rose.

This outstanding variety was one of the brightest spots in our outdoor trials the past summer. Tr. pkt., 50c; ⅛ oz., \$1.00; ¼ oz., \$1.80.

PRIMULA MALACOIDES—12,000 seeds per ½ oz., Seed may be sown from May until October for spring blooming in various sizes. Malacoides are easily grown after they get started, but they will not tolerate fertilized soil in the seed flat or early stages of growth. We offer seed of our own growing only, as Mr. Eriksson has discontinued seed production.

No. 31 Riverside Red Rose. Deep rose pink.

No. 32 Glory of Riverside Imp. An excellent variety with beautiful salmon-rose flowers.

No. 33 New Giant. Large flowered, late salmon-rose.

No. 39 Lilac Beauty. Shades of soft lilac.

No. 41 White Giant. Pure white; large flowers and heavy stems.

No. 42 Pure White Imp. Somewhat smaller but earlier and freer flowering than the above.

No. 43 Brilliancy. Flowers open lavender—turn to dark velvety red.

No. 51 Mrs. Eriksson of Riverside. Large flowers of deep rose red on compact plants of medium height.

No. 60 Rosea Superba. Strong growing bright rosy orchid.

No. 61 Springtime. Similar to Glory of Riverside.

No. 50 Mixture. Our own balanced formula mixture.

Prices above eleven, each: Tr. pkt., \$1.00; ¼ oz., \$2.75; ½ oz., \$5.00.



Despite their irritating effect on some skins, Primula Obconica seem to be increasing in popularity. Sow from January on for winter and early spring pot plants.

PRIMULA OBCONICA—4000 seeds per ½ oz. This brightly colored class excels all other Primulas in large flower size. Sow from January on for Christmas and later.

***Fasbender's Red.** An outstandingly fine extra large flowered deep crimson red.

Mohnstein's Atrosanguinea. (Dark Red.) Popular deep red.

***Mueller's Berlin Rose.** (Mueller's Rosea.) Soft medium rose. Heavy compact plants and large flowers.

Lachsrosa. Salmon rose shades.

***Coerulea.** Clear mid-blue. A choice strain.

White. Rather tall growth.

***Formula Mixture.** Carefully blended from above colors.

Prices above seven, each: Tr. pkt., \$1.25; ¼ oz., \$2.25; ½ oz., \$4.25.

Wyaston Wonder. A special selection of this famous English variety. Vigorous growing, large flowered bright crimson. Tr. pkt., \$1.25; ¼ oz., \$3.00; ½ oz., \$5.50.

GIANT FLOWERED HYBRIDS. An extra large flowered American grown strain.

Rose	Salmon	Orchid	Purple
Prices above four, each: Tr. pkt., \$1.50; ¼ oz., \$3.00.			

PRIMULA CHINENSIS (Chinese Primula)—A popular class with many retail growers but wholesale growers find they shatter some when much handling or shipping is necessary.

***Dazzler.** Vivid orange; an outstanding color. Tr. pkt., \$1.50; ½ oz., \$5.60.

Special Mixture. A choice assortment of colors. Tr. pkt., \$1.00; ½ oz., \$3.60.

For **Hardy Primulas**, see page 42.

QUEEN ANNE'S LACE FLOWER—36,000 S. 24 in. Large heads of white flowers in umbels, similar to *Didiscus*. Nice filler for basket work. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

MISCELLANEOUS ANNUALS—Continued

RANUNCULUS—Giant Mixed. Double flowers in shades of yellow, orange and red. Tr. pkt., 75c; 1/8 oz., \$1.50.

RICINUS (Castor Bean).—Very fast growing, tall, large leaved plants. Good for tall hedges and windbreaks.

Crimson Spire. 75 S. 8 ft. Bronzy red foliage with crimson stems and red fruit. 1 oz., 40c; 4 oz., \$1.40; 1 lb., \$4.20.

Zanzibariensis Mixed. 25 S. 10 ft. Foliage all green. 1 oz., 20c; 4 ozs., 60c; 1 lb., \$2.00.

RUDBECKIA—85,000 S. Fine outdoor cutting material. Very free flowering in bright yellow, orange and brown shades.

***Starlight.** The only Rudbeckia strain we have seen that actually produces fully double, Dahlia-like flowers. An attractive mixture of autumn shades flowering on long stems; flower type ranges from nearly single to fully double. Tr. pkt., 30c; 1/4 oz., 90c; 1 oz., \$3.00.

Hirta Autumn Tints (Herbswald). Fine long-stemmed strain for cutting. Shades from clear yellow thru variegated types to brown. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.50.

For the hardy **Rudbeckia Purpurea**, see page 43.

SALPIGLOSSIS—125,000 S. Salpiglossis furnishes the retail grower with good cutting material either from a Jan.-Feb. sowing indoors or a later one grown outdoors.

EMPEROR. 30 in. The tall kind for cutting. *Mixture of all colors. Tr. pkt., 15c; 1/4 oz., 30c; 1 oz., 90c.

DWARF GIANT FLOWERED. 20 in. Fine for bedding and borders. Mixture of all colors in this dwarf class. Tr. pkt., 20c; 1/4 oz., 40c; 1 oz., \$1.35.

SALVIA—Microphylla (Baby Salvia). This dainty plant is a separate species from the Splendens varieties listed below, having small brilliant red flowers carried on plants with contrasting dark olive green foliage. Uniform in growth; 14 to 16 in. Excellent for bedding where summers are cool, but shatters badly in hot climates. Also makes a very satisfactory winter-flowering pot plant. Tr. pkts. only, 75c.

SPLENDENS (Scarlet Sage). 12,000 S. This strikingly colorful annual is popular wherever bedding plants are grown. The following are listed according to their flowering dates—earliest first. In selecting varieties, keep in mind the fact that earliness is had at some cost in vigor and the earlier varieties will not make as big a showing in the fall as the later ones like Bonfire or Splendens Tall.

***St. John's Fire.** The earliest and most dwarf red strain available. About 12 in. high. Tr. pkt., 75c; 1/8 oz., \$1.40; 1/4 oz., \$2.50; 1 oz., \$7.50.

***Blaze of Fire.** The standard extra early strain. Closely follows St. John's Fire in flowering and is somewhat stronger and more robust in growth. 14 to 16 in. Tr. pkt., 75c; 1/4 oz., \$2.00; 1 oz., \$6.00.

***Firebrand (Early Harbinger).** 18 in. Between Blaze of Fire and America in earliness of flowering. Remains in full flower throughout the summer. Tr. pkt., 75c; 1/4 oz., \$2.00; 1 oz., \$6.00.

***America (Globe of Fire).** 20 in. This is our uniformly true and even stock of this fine variety. Follows Firebrand in flowering date. Tr. pkt., 50c; 1/4 oz., \$1.35; 1 oz., \$4.75.

Bonfire. 26 in. Medium tall, very even. Tr. pkt., 50c; 1/4 oz., \$1.35; 1 oz., \$4.50; 4 ozs., \$15.00.

Splendens Tall. 30 in. The original late flowering species. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.50; 4 ozs., \$12.00.

FARINACEA (Blue Salvia). 24,000 S.

Blue Bedder. Medium blue in color and grows about 3 ft. tall with long stems for cutting. Tr. pkt., 35c; 1/4 oz., \$1.15; 1 oz., \$3.50.

Royal Blue. Slightly darker than Blue Bedder. Tr. pkt., 50c; 1/4 oz., \$1.35; 1 oz., \$4.50.



G.J.B. examining Salvia Farinacea Blue Bedder in our outdoor trials. It's a fine summer cut flower.

***SANVITALIA—Procumbens.** 50,000 S. 4 to 5 in. Double creeping Zinnia. Small golden yellow flowers. Very fine dwarf edging plant. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

SAPONARIA—VACCARIA. 5500 S. Gypsophila-like flowers.

Rose

White

Prices above two, each: 1 oz., 30c; 4 oz., \$1.00; 1 lb., \$3.00.

For **Saponaria Ocymoides**, see page 43.

SCABIOSA—4500 S. Pleasing colors and long stemmed, free flowering habit make annual Scabiosa a worth while spring cut flower item when grown in a cool house. Sow directly in the open for summer cutting. No retail grower should be without some of this. The first two listed are our finest strains and biggest sellers.

***Giant Hybrid Mixture.** A special strain containing only the new large flowered varieties. Well-balanced in good cut flower colors. Use this mixture if you want only a small planting of Scabiosa for cutting. Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.00.

***Blue Moon.** Fine lavender-blue color with extra large, fully double flowers and long, wiry stems. The standard market color. Tr. pkt., 25c; 1/4 oz., 65c; 1 oz., \$2.25.

MISCELLANEOUS ANNUALS—Continued

SCABIOSA, *continued*

Ageratum Blue. Large-flowered azure blue.

Fire King. Bright scarlet.

King of the Blacks. Deep rich maroon.

***Loveliness.** Extra large flowered, deep salmon-pink.

Rosette. Deep rose suffused with salmon.

***Shasta Improved.** Fine pure white.

Prices above six, each: Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.
DWARF CLASS. For bedding and garden work. The stems are long enough for short-stemmed cut flowers and the shorter plants will hold themselves upright without support.

***Heavenly Blue.** Clear azure blue. Tr. pkt., 25c; ¼ oz., 55c; 1 oz., \$1.75.

Peace. White. Tr. pkt., 25c; ¼ oz., 55c; 1 oz., \$1.75.

Tom Thumb Mixture. 10 in. Extra dwarf and compact plants for bedding and edging. Mixture of colors. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.00.

For **Perennial Scabiosa**, see page 43.

SCHIZANTHUS—60,000 S. A January sowing will produce nice 3 in. plants for spring combinations. Sow Sept. to Nov. for larger pot plants and spring cut flowers.

***Ball Giant Flowered.** Extra large flowers (often 2 inches in diameter) and unusually brilliant colors are the outstanding points about this strain. Nice for cutting or makes a choice pot plant if pinched. Tr. pkt., 75c; ⅓ oz., \$2.00; ¼ oz., \$3.60.

***Ball Dwarf Mixture.** A distinctly dwarf growing strain with large compact heads of medium sized flowers. Makes an excellent pot plant. Tr. pkt., 50c; ⅓ oz., \$1.50; ¼ oz., \$2.50.

Ball Brilliant Blend. A carefully blended mixture of fairly tall growing varieties recommended for the grower who grows a limited number of plants and wants a complete mixture. Tr. pkt., 35c; ⅓ oz., 75c; ¼ oz., \$1.25.

Dr. Badger's Improved Hybrids. A brightly colored large-flowered strain of medium height. Suitable either for pots or cutting. Tr. pkt., 35c; ¼ oz., \$1.15.

***Giant Blotched.** Bright colored rose and pink shades, with contrasting dark centers. Somewhat earlier than most strains and a good pot plant if well pinched. Tr. pkt., 50c; ⅓ oz., \$1.25; ¼ oz., \$2.25.

Monarch Strain. An attractive mixture of bright golden rose colors. Tr. pkt., 50c; ⅓ oz., \$1.25; ¼ oz., \$2.25.

Pansy-Flowered Mixture. Flowers flat and full petalled, resembling small Pansy flowers. Tr. pkt., 35c; ⅓ oz., \$1.00; ¼ oz., \$1.80.

SHAMROCK—**True Irish Shamrock.** 38,000 S. Sow Jan. 1st in Carnation house temperature (cooler after germination) for 2-inch St. Patrick's Day plants; use 3 or 4 seedlings per pot. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.20.

SMILAX—4000 S. Well-known greenhouse climber. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.25.

SNAPDRAGONS—See pages 14 and 15.

For **Snow-on-the-Mountain**, see Euphorbia, page 28.

SOLANUM—To insure an even, first class strain of this valuable pot plant, we grow our own seed crop of these varieties so we can personally supervise selection and roguing.

CHRISTMAS CHERRY. 12,000 S. Sow seed in February, summer plants outdoors; lift and pot in September for Christmas pot plants.

***Ball Christmas Cherry** (Hlavacek's Masterpiece). A uniform, bushy strain without the wild growth of the original Cherry varieties. Large, round red fruit is very freely produced.

Patterson Christmas Cherry. A compact strain of Christmas Cherry. Fruit medium sized and freely produced well above foliage. Well suited for the smaller sized pot specimens.

Prices above two, each: Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

SOLANUM, *continued*

CHRISTMAS PEPPER (Capsicum). 9,000 S. Sow April to June and carry along indoors for Christmas sales.

Ball Christmas Pepper. Compact plants with a profusion of cone-shaped fruit that is first green, later turning purple and then red. Selected for absolute evenness and large brilliantly colored fruit. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

***Craigi Christmas Pepper.** Differs from the above in that the plants are smaller leaved and rather flattened across the top with somewhat smaller fruit very freely produced well above the foliage. Fruit is first a clear even white, later turning a brilliant red. This fine strain is widely grown by many eastern pot plant growers. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$5.00.

MISCELLANEOUS SOLANUMS

Love Apple. An annual shrubby plant growing to 3 ft. with long thorny branches of brilliant orange-red fruits about 1½ in. across. Decorative and colorful material to cut for use in fall floral arrangements. Tr. pkt., 50c; ⅓ oz., \$1.50.

STATICE—SINUATA. 350 seed heads per oz. This attractive annual is largely grown outdoors for drying especially in southern localities, but a mid-winter sowing makes a nice late spring greenhouse crop.

***Market Grower's Blue.** Fine even deep blue. Excellent stock.

Kampf's Tall Improved. The standard long-stemmed blue.
***Lavender Queen.** A very pleasing shade of pastel lavender. Fine color and good grower.

Rosea Superba. Rosy-lavender.

***Snow Witch.** A clear white selection from the old Sinuata white.

***New Hybrids Mixture.** A very attractive mixture of all the standard colors as well as many new hybrid shades.

Bonduelli Superba. 350 seed heads per oz. Similar in type to Sinuatas but with large yellow flowers.

Prices above seven, each: Tr. pkt., 15c; 1 oz., 45c; 4 oz., \$1.60; 1 lb., \$4.80.

Suworowii. (Russian or Rat-Tail Statice). 12,000 S. A very useful Statice for greenhouse forcing. Seed sown in January will produce fine artistically curved rose pink "rat-tails" that work in splendidly with centerpieces, etc., in late spring. Tr. pkt., 15c; ¼ oz., 40c; 1 oz., \$1.35.

For **Perennial Statice**, see page 43.

STOCKS—See page 18.

For **Strawflower**, see *Acroclinium*, page 22 and *Helichrysum*, page 30.

STRAWBERRY—Harzland (Runnerless). 90,000 S. Small red fruits are carried on fairly compact runnerless plants. Sow seed outside in early spring and carry plants thru summer in open, potting in fall for Thanksgiving and Christmas pot plants. A real novelty item for your holiday trade. Tr. pkt., 50c; ⅓ oz., \$1.50.

STREPTOCARPUS—Giant Flowered Mixture. (Cape Primrose). Our original stock of this winter flowering pot plant was grown by a European specialist; we are convinced no better is obtainable. Tr. pkt., \$1.00; ⅓ oz., \$2.75.

For **Sunflower**, see *Helianthus*, page 30.

SWEET PEAS—See pages 16 and 17.

THUNBERGIA—Alata. (Black-Eyed Susan). 1100 S. Very fine, used as an annual climber or for hanging baskets, making a dense growth and producing an abundance of flowers in shades of yellow, buff, and orange—with black centers. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., \$1.00; 4 oz., \$3.50.

MISCELLANEOUS ANNUALS—Continued

TITHONIA—Avalon Earliest. Extra early flowering with large blooms of brilliant reddish orange produced on long stems. Sow right outdoors in spring for summer use or in late summer for winter greenhouse flowering. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

For Tobacco Plant, see Nicotiana, page 31.

TORENIA—375,000 S. Rich combination of deep blue with violet blotches on lip. Nice spring pot or outdoor bedding plant. **Fournieri Grandiflora.** Standard variety.

Fournieri Compacta. A compact form of the above.

Prices above two, each: Tr. pkt., 35c; ½ oz., \$1.15; ¼ oz., \$2.00.

VENIDIUM—Ball Hybrids. 65,000 S. An interesting array of colors ranging from silvery white through buff and orange shades. At its best indoors on a raised bed from a fall sowing. Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$3.75.

VERBENAS—These always popular and colorful plants are widely used for bedding, window boxes and combinations. Germination is not rapid, so should be sown in soil temperature of 65° to 70°. Once established, 48° nights suits them nicely, but be sure to pinch them early to avoid straggly growth.

GRANDIFLORA. 10,000 S. Low growing (under 1 ft.) and trailing in habit with large flowers.

***Beauty of Oxford Hybrids.** A very choice vigorous growing strain with extra large flowers. Colors range from clear rose-pink to deep rose-red, all with slight white eye.

Blue. Deep marine shade with white eye. Prefer Royale.

Cerise Queen. Bright salmon cerise.

***Crimson Glow.** Extra rich crimson without eye.

***Dannebrog.** A very attractive combination of bright scarlet with large white eye. Growth more compact than other Grandifloras.

***Ellen Willmott.** Extra large, salmon pink; white eye.

Etna. Scarlet with small creamy white eye.

Floradale Beauty. Of the same vigorous growing type as Beauty of Oxford with extra large flowers in rich salmon pink shades.

***Lavender Glory.** Very fine large flowered fairly deep lavender. About 75% true to type; balance mostly white.

Lucifer. Scarlet. We prefer Spectrum Red.

Luminosa. Deep salmon shaded pink with white eye.

Mayflower. Medium light pink.

***Mounty.** A brilliant scarlet or cardinal red with small light eye. Color deeper than Spectrum Red and stronger in growth.

***Pure White.** Very even strain.

Rosea Stellata. Clear deep pink with white eye. Quite free flowering and a strong grower.

***Royale.** Large flowered rich deep blue with creamy eye.

***Spectrum Red.** Very bright rich scarlet with no eye. Lighter and brighter color than Crimson Glow. Very even true strain.

Mixture of all colors in the Grandiflora class.

Prices above 18, each: Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.60.

COMPACTA. 10,000 S. A compact, erect growing type particularly adapted for border and pot work.

***Blue Sentinel.** A rich violet blue; semi-compact in growth. 10 in. high with spread of 10 to 12 in. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

***Fireball.** 4 to 5 in. Extra dwarf, bright fiery scarlet.

***Snowball.** 8 to 10 in. Fine, free flowering pure white.

Mixture of all colors in this compact class.

Prices above three, each: Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.



Verbenas are always popular for summer bedding, but be sure to keep them warm while germinating.

VERBENAS, continued

***Violet Bouquet.** 10 to 12 in. Deep violet; distinct white eye. Upright symmetrical habit. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

Royal Bouquet. 10 to 12 in. A mixture of all colors in this upright type. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

MISCELLANEOUS VARIETIES.

***Bipinnatifida.** 18 in. Very heavy, fast grower. Deeply serrated leaves account for its common name, Fern-leaved Verbena. Clusters of attractive lavender-blue flowers borne freely thruout season. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.50.

Bonariensis, Tobaty Variety. Similar to the original species, V. Bonariensis, except for slightly larger flowers and deeper blue color. Not as free branching as the original, being almost without laterals. Offered in place of V. Bonariensis which is unavailable this year. Tr. pkt., 35c; ½ oz., \$1.25; ¼ oz., \$2.25.

***Venosa.** 60,000 S. 8 to 10 in. A dwarf bedding Verbena that flowers continuously thruout our hot mid-Western summers. Deep lilac flowers produced quite freely. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.60.

VINCA—ROSEA. (Periwinkle.) 21,000 S. 15 in. One of the most generally satisfactory outdoor bedding plants we have. Will stand an almost unbelievable amount of hot, dry weather. Sow early with bottom heat.

***Twinkles.** Soft blush pink with bright red eye.

***Pink.** The standard medium pink.

Alba Pura. Pure white.

Alba Oculata. White with pink center.

Delicata. Light pastel pink shade.

Mixture of above colors.

Prices above six, each: Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.80.

For Viola, see page 43.

MISCELLANEOUS ANNUALS—Continued

VIRGINIAN STOCK—Compacta Mixture. 60,000 S. 8 in. Nice compact bedding plant in shades of lilac, red and white. Tr. pkt., 15c; 1 oz., 65c.

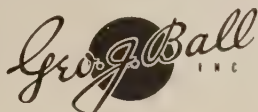
VISCARIA—Loyalty. Dwarf, 8 in. plants producing a wealth of single blue flowers about 1 in. across. Does best where summers are not too hot. Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.40.

WALLFLOWER. (Annual.) 14,000 S.—**Gold Standard.** Richly fragrant deep golden yellow. In our latitude should be sown in October for greenhouse flowering. Tr. pkt., 25c; ¼ oz., 85c.

For **Perennial Wallflower**, see *Cheiranthus*, page 39.

ZINNIAS—See pages 10 and 11.

Unless the package of seed you buy carries this trade mark:



IT IS NOT BALL SEEDS



Verbena Bonariensis, Tobaty Variety, a valuable outdoor cut flower that produces an abundant crop of flowers during late July and August from a March sowing. No supporting necessary and any good garden soil is sufficient. Seed doesn't germinate satisfactorily in soil temperatures below 70–75°

Presented here is an abbreviated list of the most commonly used garden names of some of the better known plants with their botanical equivalents. Since most are cataloged botanically, this should help to clarify at least some of the confusion in plant names.

African Violet	<i>Saintpaulia</i>
Amethyst	<i>Browallia</i>
Baby's Breath	<i>Gypsophila</i>
Balloon Flower	<i>Platycodon</i>
Batchelor's Button	<i>Centaurea</i>
Beard Tongue	<i>Pentstemon</i>
Bell Flower	<i>Campanula</i>
Black-Eyed Susan	<i>Thunbergia</i>
Blanket Flower	<i>Gaillardia</i>
Bleeding Heart	<i>Dicentra</i>
Blue Daisy	<i>Agatheia</i>
Blue Lace Flower	<i>Didiscus</i>
Bouncing Bet	<i>Saponaria</i>
Bugloss	<i>Anchusa</i>
Buttercup	<i>Ranunculus</i>
Butterfly Flower	<i>Schizanthus</i>
Butterfly Weed	<i>Asclepias</i>
California Poppy	<i>Escholtzia</i>
Camomile	<i>Anthemis</i>
Candytuft	<i>Iberis</i>
Cape Marigold	<i>Dimorphotheca</i>
Cape Primrose	<i>Streptocarpus</i>
Cardinal Flower	<i>LOBELIA</i>
Carnation	<i>Dianthus</i>
Castor Bean	<i>Ricinus</i>
Catnip	<i>Nepeta</i>
Chinese Forget-Me-Not	<i>Cynoglossum</i>
Chinese Lantern Plant	<i>Physalis</i>
Christmas Cherry	<i>Solanum</i>
Cockscomb	<i>Celosia</i>
Columbine	<i>Aquilegia</i>

Cone Flower	<i>Rudbeckia</i>
Coral Bells	<i>Heuchera</i>
Creeping Zinnia	<i>Sanvitalia</i>
Cup and Saucer Vine	<i>Cobaea</i>
Cup Flower	<i>Nierembergia</i>
Cupid's Dart	<i>Catananche</i>
Dusty Miller	<i>Centaurea</i>
English Daisy	<i>Bellis</i>
False Dragonhead	<i>Physostegia</i>
False Starwort	<i>Boltonia</i>
Farewell to Spring	<i>Godetia</i>
Feverfew	<i>Matricaria</i>
Firecracker Plant	<i>Cuphea</i>
Flax	<i>Linum</i>
Floss Flower	<i>Ageratum</i>
Flowering Tobacco	<i>Nicotiana</i>
Forget-Me-Not	<i>Myosotis</i>
Foxglove	<i>Digitalis</i>
Gas Plant	<i>Dictamnus</i>
Gayfeather	<i>Liatris</i>
Globe Amaranth	<i>Gomphrena</i>
Globe Flower	<i>Trollius</i>
Globe Thistle	<i>Echinops</i>
Goldencup	<i>Hunnemannia</i>
Greenbriar	<i>Smilax</i>
Joseph's Coat	<i>Amaranthus</i>
Kingfisher Daisy	<i>Felicia</i>
Lavender	<i>Lavendula</i>
Love Apple	<i>Solanum</i>
Love-in-a-mist	<i>Nigella</i>
Lupine	<i>Lupinus</i>
Maltese Cross	<i>Lychnis</i>
Marigold	<i>Tagetes</i>
Marvel of Peru	<i>Marabillis</i>
Meadow Rue	<i>Thalictrum</i>
Money Plant	<i>Lunaria</i>
Morning Glory	<i>Ipomoea</i>
Mourning Bride	<i>Scabiosa</i>

Painted Daisy	<i>Pyrethrum</i>
Painted Tongue	<i>Salpiglossis</i>
Periwinkle	<i>Vinca</i>
Primrose	<i>Primula</i>
Purple Rockcress	<i>Aubrietia</i>
Redhot Poker	<i>Tritoma</i>
Rockcress	<i>Arabis</i>
Rose Mallow	<i>Hibiscus</i>
Sage	<i>Salvia</i>
Sensitive Plant	<i>Mimosa</i>
Silk Oak	<i>Grevillea</i>
Slipperwort	<i>Calceolaria</i>
Snapdragon	<i>Antirrhinum</i>
Snow in Summer	<i>Cerastium</i>
Snow on the Mountain	<i>Euphorbia</i>
Spider Plant	<i>Cleome</i>
Stock	<i>Mathiola</i>
Stoke's Aster	<i>Stokesia</i>
Strawflower	<i>Helichrysium</i>
Summer Cypress	<i>Kochia</i>
Sun Rose	<i>Helianthemum</i>
Sunflower	<i>Helianthus</i>
Swan River Daisy	<i>Brachycome</i>
Sweet Pea	<i>Lathyrus</i>
Sweet Rocket	<i>Hesperis</i>
Tassel Flower	<i>Cacalia</i>
Thrift	<i>Statice</i>
Tickseed	<i>Coreopsis</i>
Toadflax	<i>Linaria</i>
Transvaal Daisy	<i>Gerbera</i>
Tree Mallow	<i>Lavatera</i>
Umbrella Plant	<i>Cyperus</i>
Viper's Bugloss	<i>Echium</i>
Wallflower	<i>Cheiranthus</i>
Wild Indigo	<i>Baptisia</i>
Wind Flower	<i>Anemone</i>
Wishbone Flower	<i>Torenia</i>
Yarrow	<i>Achillea</i>

HARDY PERENNIALS

Because the slow and uneven germination of most perennials is a provision of nature to preserve the species, we recommend sowing seeds in spring. Germination will be better than during the heat of mid-summer and the larger plants produced will winter over more satisfactorily. We feel that every grower should include at least a few perennials in his outdoor planting. They get along admirably with little care, and many make really profitable cut flowers.

ACHILLEA—**Filipendula*, **Parker's Variety** (Cloth of Gold). 22,000 S. Large heads of golden yellow flowers on long stems; fine for cutting. Tr. pkt., 25c; $\frac{1}{8}$ oz., 65c; $\frac{1}{4}$ oz., \$1.20.

***The Pearl** (Ptarmica). 175,000 S. 30 in. The standard double white for cutting. Tr. pkt., 25c; $\frac{1}{8}$ oz., 65c; $\frac{1}{4}$ oz., \$1.20.

ALYSSUM—The two varieties following are perfectly hardy with us and make fine, free flowering rock garden or border plants.

***Saxatile Compactum** (Gold Dust). 30,000 S. 12 in. Flowers early May. Rich golden yellow. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Saxatile Silver Queen. (Sulphureum). 30,000 S. Same as above but a light lemon yellow. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

ANCHUSA—***Barrelieri**. 5500 S. 15 in. Very fine Forget-Me-Not blue rock garden plant. Flowers middle to end of May. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Dropmore Strain. (Italica.) 1100 S. 6 ft. Nice blue for cutting. Tr. pkt., 15c; $\frac{1}{4}$ oz., 20c; 1 oz., 60c.

Myosotidiflora. 10,500 S. 12 in. May flowering Forget-Me-Not blue. Seed should be placed in refrigerator for 72 hours before sowing. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25; 1 oz., \$8.00.

ANEMONE—**St. Brigid Mixed**. Choice long stemmed mixture of brilliant colors. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.30; 1 oz., \$4.20.

ANTHEMIS—**Kelwayi** (Hardy Marguerite). 85,000 S. 3 ft. Yellow Daisy flowers produced thruout the summer. Tr. pkt., 15c; 1 oz., 65c.

AQUILEGIA (Columbine) 15,500 S.—Though not well adapted for shipping, well grown Columbines are of definite cut flower value for retail growers. Not at all difficult to force either. Pot up from the field the first year plants storing in a cold house or frame until about Feb. 1. Start in a low temperature gradually increasing to around 50°.

Alpina. 2 ft. Blue. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Coerulea (Rocky Mountain Columbine) Sky-blue with white corolla. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Copper Queen. Copper red shades with straw-yellow corolla. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$8.25.

***Longissima**. Delicate, pale yellow with extra long (4 in.) spurs. Richly fragrant. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$2.50; $\frac{1}{8}$ oz., \$4.50.

***Longissima Hybrids**. A variety of attractive shades in this extra long spurred class. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$2.00.

***Mrs. Nicholls**. A large flowered, clear deep blue Columbine. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; 1 oz., \$8.00.

***Mrs. Scott Elliotts Hybrids**. An excellent and popular long-spurred mixture. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

Rose Queen. Rose with white corolla. Tr. pkt., 35c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.10.

***Snow Queen**. Extra large pure white flowers. An exceptionally true and uniform strain. Tr. pkt., 25c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

Mixture of all colors in this long-spurred class. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Aquilegia Longissima is an outstanding novelty.



ARABIS (Rock Cress). 150,000 S.—***Alpina Snowcap**. 6 in. Dwarf compact plants with dense masses of shining snow-white flowers. Blooms very early in spring. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Alpina. 12 in. White. Tr. pkt., 25c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.80.

ARMERIA—**Formosa**, Large Flowered Hybrids. Tr. pkt., 35c; $\frac{1}{8}$ oz., 70c; $\frac{1}{4}$ oz., \$1.30; 1 oz., \$3.90.

***Glory of Holland**. Ball-shaped deep pink flowers about $1\frac{1}{2}$ inches in diameter are carried on straight wiry stems 2 feet long. Fine for cutting and blooms throughout the summer. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$2.00.

ASCLEPIAS—**Tuberosa**. 4500 S. Fine orange for cutting. Requires well drained location. Freezing over winter helps germination. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$2.75.

ASTER—**Hardy Large Flowered Mixture**. Perfectly hardy and attractive assortment. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.10; $\frac{1}{4}$ oz., \$2.00.

Alpinus, **Finest Mixed**. Lavender, blue and white flowers. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.

AUBRIETIA—**Large Flowered Hybrids**. (Monarch Strain). 150,000 S. 6 in. Low growing mat-like plants; similar to Arabis but with flowers in a wide range of colors from lilac to purple. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.

Hendersonii. Deep purple. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.

Leichtlinii. Carmine rose. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.

For **Baby's Breath**, see Gypsophila, pages 29 and 40; also Euphorbia Corollata, page 40.

BAPTISIA—**Australis** (False Indigo). 1700 S. Sprays of pea-shaped indigo-blue flowers. 3 ft. Tr. pkt., 25c; 1 oz., 75c.

BELLIS—**PERRENNIS**. This popular Double English Daisy is much used for spring and early summer bedding. Though a perennial, it is commonly grown as an annual like Pansies.

Red **Rose** **White**

Prices above three, each: Tr. pkt., 50c; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.50.

Mixture. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.80; $\frac{1}{4}$ oz., \$3.20.

MISCELLANEOUS PERENNIALS—Continued

BOCCONIA—Japonica (Plume Poppy). Huge spikes of creamy white flowers on 6 ft. plants. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c.

BOLTONIA—Latisquama. 95,000 S. 4 to 5 ft. Aster-like perennial with flowers of delicate pink about 1 in. across. Tr. pkt., 25c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00.

CAMPANULA—CARPATICA. 350,000 S. 12 in. Perennial. Wide, upright cup-shaped flowers are borne on slender erect stems. Plants are leafy clumps.

Blue. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$2.50.

***Hybrid Mixture**. This strain contains many new colors in this dwarf class. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$2.25.

MEDIUM CALYCANTHEMA (Cup and Saucer Type). 120,000 S. 3 ft. Biennial. Both this and the following (Medium Single) are easily forced for spring greenhouse flowering either as pot plants, for which they are well adapted, or for cutting.

Dark Blue Light Blue Rose White Mixture

Prices above five, each: Tr. pkt., 20c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.60.

MEDIUM SINGLE (Canterbury Bells). 135,000 S. 3 ft. Biennial.

Dark Blue Light Blue Pink White Mixture

Prices above five, each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

PERSICIFOLIA. 340,000 S. 30 in. Perennial. Large flowers on stiffly erect stems.

White Blue Mixture

Prices above three, each: Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

Telham Beauty. Large bells of China blue. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

PYRAMIDALIS (Chimney Campanula). 250,000 S. 5 ft. Perennial.

Mixture. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

For Perennial Candytuft see Iberis page 41.

CARNATION—GRENADIN (Hardy Carnation). 14,000 S. 20 in. Good for cutting.

King of the Blacks. Darkest red.

Golden Sun *Pink *Red White *Mixture

Prices above six, each: Tr. pkt., 50c; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$8.00.

For other Carnation varieties see page 24.

CATANANCHE—Coerulea. 16,000 S. 24 in. Nice everlasting for cutting with light lavender-blue, Centaurea-like flowers produced freely first year from seed. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.

CENTAUREA—Montana. 1600 S. 24 in. Large Cornflower-blue flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.20.

For Annual Centaurea Cyanus, see page 24.

CERASTIUM—*Tomentosum (Snow-in-Summer). 42,000 S. 10 to 12 in. An excellent dwarf bedding perennial with silvery white foliage and small white flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

CHEIRANTHUS (Wallflower)—*Golden Bedder. 19,000 S. 18 in. Large deep golden yellow. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

Allionii (Siberian Wallflower). 19,000 S. 18 in. Free flowering brilliant orange. Tr. pkt., 10c; 1 oz., 35c.

For Annual Wallflower, see page 37.

CHRYSANTHEMUM

***Glory Mixture**. Our finest mixture of hardy Chrysanthemums with an exceedingly wide range of brilliant colors. Contains seeds of Korean and Arcticum Hybrids as well as Azaleamums, Indicums and Morifoliums. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$2.20; $\frac{1}{4}$ oz., \$4.00.



Bellis Perennis. See bottom of opposite page.

CHRYSANTHEMUM, continued

Korean Hybrids. 60,000 S. Single and semi-double types in a good color range. Many of these bloom rather late for localities with early frost dates. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00.

CLEMATIS—RECTA. *Mandschurica*. Panicles of fragrant white flowers on 4 to 5 ft. plants. Tr. pkt., 70c; $\frac{1}{8}$ oz., \$1.40; $\frac{1}{4}$ oz., \$2.50.

COREOPSIS—The long, graceful stems and rich golden yellow color give this plant real value for cutting. We find it best treated as a biennial.

***Sunburst** (New Gold). 11,000 S. A fine semidouble strain. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Mayfield Giant. 11,000 S. Extra large deep golden yellow. Single. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

DAISY, SHASTA (*Chrysanthemum Maximum*).

***G. Marconi**. The largest flowered and finest double Shasta Daisy strain. Long-stemmed. Originator's seed. Tr. pkt., 50c; 6 Tr. pkts., \$2.50. Regular stock. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75.

Double Fringed (Diener's). 18,000 S. A specially reselected strain producing about 50% good double types that should be propagated by division. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.25; $\frac{1}{4}$ oz., \$4.00.

June Marguerite. 40,000 S. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.25.

***Mayfield Giant**. 21,000 S. Quite large flowered, end of June.

Alaska. 21,000 S. The standard Shasta Daisy, July.

Conqueror. 21,000 S. Giant late white, late July.

Prices above three, each; Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

DELPHINIUM—See page 21.

DIANTHUS—28,000 S. Easily grown from seed and flowers the second season from sowing. Germinates best in soil temperature of 65° to 75°.

Allwoodi Alpinus Mixed. (8 to 10 in.) $1\frac{1}{2}$ in. single flowers in shades of pink. Early June. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.50.

MISCELLANEOUS PERENNIALS—Continued

DIANTHUS, *continued*

Deltoides Erecta. 6 in. June flowering. A dwarf Maiden Pink. Bright red. Tr. pkt., 35c; 1/8 oz., 90c; 1/4 oz., \$1.50.

***Latifolius Atrococcineus.** 12 to 15 in. Miniature Rose-like flowers. Bright crimson. Tr. pkt., 35c; 1/8 oz., 90c; 1/4 oz., \$1.50; 1 oz., \$4.50.

PLUMARIUS (Clove Pink). *Cyclops.* Deep rose with crimson ring. Tr. pkt., 35c; 1/4 oz., \$1.00.

Double Mixture (Scoticus Florist Strain). Various shades of pink, rose, salmon and white; some self colors, others with bright crimson zone. 1 1/2 to 2 in. flowers on 12 to 15 in. stems. Tr. pkt., 35c; 1/8 oz., 90c; 1/4 oz., \$1.50; 1 oz., \$4.50.

Single Mixture. 20 in. Free flowering, and sweet scented. Tr. pkt., 15c; 1/4 oz., 40c; 1 oz., \$1.35.

BARBATUS (Sweet William). 24 in. Early June flowering. Perfectly hardy, flowering second season from seed. All of the following varieties are single.

***Holborn Glory.** Striking combination of crimson with white.

***Newport Pink (Pink Beauty).** A particularly rich pastel salmon rose shade. Very attractive.

Purple Beauty. A rich deep color.

Scarlet Beauty. Well named, intense scarlet red.

Giant White. Ours is an extra large flowered strain.

Single Mixture.

***Double Mixture.**

Prices above seven, each: Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.40.

***Single Midget Mixed.** Very fine neat alpine and rock plant. 6 to 8 in. with dense heads of single Sweet William flowers. Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$4.50.

***Double Midget Mixed.** 6 to 8 in. Like above except flowers are double. Tr. pkt., 35c; 1/4 oz., 85c; 1 oz., \$3.00.

For other Dianthus, see page 28.

DICENTRA—Eximia (Plumy Bleeding Heart). 16,000 S. Dwarf, 12 in. Rose-pink. Tr. pkt., 35c; 1/4 oz., \$1.00.

DICTAMNUS—Fraxinella (Gas Plant). 1700 S. 30 in. Pink with dark veins. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

DIGITALIS—GLOXINOIDES (Foxglove). 180,000 S. 4 ft. Biennial. This is an extra large flowered strain.

Purple Rose White Giant Shirley Mixture

Prices above four, each: Tr. pkt., 20c; 1/4 oz., 60c; 1 oz., \$2.00.

ECHINOPS—Ritro (Globe Thistle). Metallic blue flower heads 2 in. across are borne on 2 to 3 ft. plants. Can be dried for winter bouquets. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.00.

EUPHORBIA—Corollata (Wild Baby's Breath). 8700 S. 24 in. Small Gypsophila-like white flowers. Tr. pkt., 35c; 1/4 oz., \$1.25; 1 oz., \$4.25.

Myrsinites. Attractive succulent-like silvery green foliage. Each branch produces a brilliant yellow bract of leaves in May. 6-8 in. tall. Tr. pkt., 35c; 1/8 oz., \$1.00.

Polychroma. 15 to 18 in. Bushy plants with bracts of bright yellow changing to rosy bronze. Tr. pkt., 50c; 1/16 oz., \$1.35.

For Feverfew, see Matricaria, page 41.

For Foxglove, see Digitalis, this page.

GAILLARDIA—GRANDIFLORA. 9500 S. The following strains, except Goblin, are excellent cut flower sorts.

***Dazzler.** The standard fine cutting strain. Golden yellow with maroon center.

***Monarch Strain.** A very superior mixture of large, full petaled flowers with an unusually bright color range. Prices above two, each: Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.



Hardy Lupines are fine for cutting in cool climates.

GAILLARDIA, *continued*

***Burgundy.** Deep shade of wine red. Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.25.

Portola Hybrids Mixed. Standard hybrid mixture. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

Goblin. Forms very attractive compact plants with red and yellow bicolored flowers. Tr. pkt., 25c; 1/4 oz., 65c; 1 oz., \$2.25.

For Annual Gaillardia, see page 28.

For Gas Plants, see Dictamnus, this page.

GEUM—7000 S. The following two provide nice cut flower material and are perfectly winter hardy with some protection.

Lady Stratheden. 24 in. Double golden yellow.

Mrs. Bradshaw. 24 in. Double glowing red.

Prices above two, each: Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

GYPSOPHILA—34,000 S. Valuable for outdoor summer cutting and easily and economically grown.

***Pacifica.** 42 in. Starry pink flowers in Sept. and Oct. Tr. pkt., 25c; 1/4 oz., 80c; 1 oz., \$2.75.

***Oldhamiana.** 30 in. Feathery light pink flowers with silvery foliage. Blooms first year from an early sowing. Oct. flowering—watch frost dates. Tr. pkt., 25c; 1/4 oz., 65c; 1 oz., \$2.25.

PANICULATA. The regular white hardy Gyp. Note that double grafted varieties like Bristol Fairy are not available from seed.

***Double Snow Flake.** 40 in. An improved double hardy Gyp. About 50% are double flowering plants. Tr. pkt., 35c; 1/4 oz., \$1.35; 1 oz., \$4.50.

Single White. 40 in. Tr. pkt., 15c; 1 oz., 40c; 4 oz., \$1.35.

REPENS. 6 in. An attractive, hardy rock garden plant.

Rose. Tr. pkt., 25c; 1/4 oz., 80c; 1 oz., \$2.40.

For Annual Gyp., see page 29.

MISCELLANEOUS PERENNIALS—Continued

HELIANTHEMUM—Mutabile (Sun Rose). 15,000 S. 8 to 10 in. Very attractive dwarf evergreen rock plant completely covered with blooms in mixed colors during July and August. Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.35.

HESPERIS—Matronalis (Sweet Rocket). 15,000 S. Sweet scented violet flowers on 3 to 4 ft. plants. Tr. pkt., 15c; ¼ oz., 30c; 1 oz., 90c.

HEUCHERA—Sanguinea, Hybrida Mixed (Coral Bells). 750,000 S. 24 in. Shades of red thru rose to white. Tr. pkt., 50c; ⅙ oz., \$1.75; ⅛ oz., \$3.00.

HIBISCUS—Mallow Marvels Mixed. 4 ft. Ours is a very showy extra large flowered strain. Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.20.

HOLLYHOCK—Imperator Improved. 2700 S. Choice double crested "Begonia Flowered" mixture. Tr. pkt., 30c; ¼ oz., 55c; 1 oz., \$1.80.

Allegheny Mixed. 2700 S. Single and semi-double types. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Triumph. Double fringed flowers in delicate art shades. Tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.50.

CHATER'S DOUBLE. 3100 S. The standard double Hollyhock.

Chamois, Deep Rose, Lilac Beauty, Newport Pink, Scarlet, Sulphur Yellow, White and Mixture

Prices above eight, each: Tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.50

IBERIS (Hardy Candytuft)—11,500 S. **Gibraltarica**. 12 in. Large flowered lilac. Tr. pkt., 20c; ¼ oz., 45c; 1 oz., \$1.40.

Sempervirens. 12 in. White flowers in late May. Seedlings flower second season. Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.50.

LATHYRUS—LATIFOLIUS (Hardy or Everlasting Sweet Pea). 500 S. Abundant source of short-stemmed flowers. 7 ft.

Pink Beauty White Pearl Red Mixture

Prices above four, each: Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

LAVANDULA (32,000 S.)—***Munstead Strain**. 12 in.

Freely produces large sweet scented flowers a month earlier than the common Lavender. An improved Vera. Tr. pkt., 35c; ¼ oz., \$1.00.

LEONTOPODIUM—Alpinum (Edelweiss). 275,000 S. Attractive rock garden plant. Small greenish white leaves. Tr. pkt., 50c; ⅙ oz., \$1.00.

LIATRIS (Gay feather)—9500 S. Excellent cut flowers with long, decorative, bold spikes. All are easily grown.

***Pycnostachya**. Extra long-stemmed—3 to 5 ft. with long 15 to 18 in. flower spikes of rosy purple. Finest cut flower kind.

Scariosa. 4 ft. Extra large individual flower heads of rosy purple are carried on long, loosely set spikes.

***Scariosa White**. CROP FAILURE.

Spicata. Not quite so long-stemmed or with as long flower spikes as Pycnostachya; purple. Prefers a damp low location.

Prices above four, each: Tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.70.

LILIES—*White Queen. 8300 S. This is the largest and finest seed propagated Lily we know of. Produces a plentiful quantity of real quality flowers in 16–18 months from seed. Pure White. ½ Tr. pkt., 60c; Tr. pkt., \$1.00; ⅛ oz., \$2.50; ¼ oz., \$4.50; 1 oz., \$15.00.

Henryi. Seed should be frozen in flats for four weeks at about 30° for best germination. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Philippinense Formosanum, Giant Flowered. 8200 S. An improved form of the original stock of Philippine Lily. Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.50; 4 oz., \$12.00.

Regale (Regal Lily). 6500 S. The large, showy flowers are pure white inside with yellow base; reverse of petals are tinged with pink. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50; 4 oz., \$5.00.



Ball Matricaria flowering in July from a Feb. 1 sowing.

LILIES, continued

Tenuifolium (Coral Lily). Freely produces medium sized flowers of brilliant coral red. 18 to 20 in. tall; May flowering. Tr. pkt., 35c; ¼ oz., 75c.

LINUM—Perenne (Perennial Flax). 8500 S. 2 ft. Attractive blue flowers on slender stems. Tr. pkt., 15c; 1 oz., 50c.

Flavum. Yellow. Tr. pkt., 25c; ¼ oz., 75c.

LOBELIA—Cardinalis (Cardinal Flower). 725,000 S. 36 in. Bright cardinal red. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.75.

LUNARIA—BIENNIS (Honesty or Money Plant). 1500 S.

White Mixture

Prices above two, each: Tr. pkt., 25c; ¼ oz., 35c; 1 oz., \$1.25.

LUPINUS—POLYPHYLLUS (Hardy Lupine). Fine for cutting. Requires a well drained location and thrives best in cool climate.

***Russell Strain**. 1000 S. Long, closely set spikes of extra large florets in rich self colors and unusual bi-colors. Developed by a famous English specialist.

Reselected Stock (Originator's packets) 20 seeds, 30c; 65 seeds, 65c; 150 seeds, \$1.25; 350 seeds, \$2.50.

Grown from Originator's Stock. Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00; 4 ozs., \$6.00.

MISCELLANEOUS POLYPHYLLUS VARIETIES. 1450 S.

Dark Blue. Tr. pkt., 15c; ¼ oz., 35c; 1 oz., \$1.15.

Rose. Tr. pkt., 35c.

White. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

***Harkness Regal Mixture**. The standard fine hybrid mixture. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

LYCHNIS—Chalcedonica (Maltese Cross). 64,000 S. 36 in. Scarlet. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

MATRICARIA—CAPENSIS (Feverfew). 145,000 S.

***Ball Double White**. Sowings of this popular strain of Feverfew made through January will produce a welcome cut during July and early August. Tr. pkt., 35c; ⅛ oz., \$1.00; ¼ oz., \$1.75; 1 oz., \$5.75.

MISCELLANEOUS PERENNIALS—Continued



Primula Giant Munstead Strain and the taller Primula Colossea, both described below.

POPPY—ORIENTALE (Oriental Poppy). 140,000 S. Large cup-shaped flowers with crinkled petals. Newly opened flowers when cut in early morning or late evening will keep in water for 3 to 5 days if ends of stems are well burned within 5 minutes of cutting.

Beauty of Livermere, Dark oxblood-red. Tr. pkt., 30c; $\frac{1}{4}$ oz., \$1.25.

Brilliant. 40 in. Vivid, fiery red. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.50.

Princess Victoria Louise. The standard light orange salmon. Tr. pkt., 30c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

Salmon Shades. Huge blossoms in unusual new salmon shades. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

Mixture. Of all colors. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.

For other Poppy varieties, see page 33.

MATRICARIA, continued

Double Golden Ball. 10 in. Dwarf, semi-double yellow. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

MYOSOTIS (Forget-Me-Not) 42,000 S.

***Blue Bird** (Oblongata). 12 in. Standard blue for Spring greenhouse flowering. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Palustris Semperflorens. Dwarf blue, 12 in. Flowers from early spring until autumn. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00.

VICTORIA. A dwarf, compact strain. 6 to 8 in.

Dark Blue **Rose** **White** **Dwarf Mixed**

Prices above four, each: Tr. pkt., 35c.

ALPESTRIS. Biennial.

Blue Eyes. Early flowering bright blue with white eye. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.50.

***Royal Blue** (Indigo Blue). 12 in. Deep rich blue. Tr. pkt., 30c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

For Myosotis Ball Early, see page 31.

For Painted Daisy, see Pyrethrum, this page.

NEPETA—Mussini (June-flowering Catnip). 52,000 S. 12 in. Neat bushes with lavender-blue flowers; both foliage and flowers are aromatic. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

OENOTHERA—Youngii (Sundrop). 18 in. Large yellow blooms. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.80.

PHLOX—Hybrid Mixture (Decussata). 2500 S. 3 ft. Our strain of this popular perennial Phlox contains many large flowered, brilliantly colored types. Tr. pkt., 35c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.40.

PHYSOSTEGIA—Virginica (False Dragonhead). 16,000 S. 4 ft. Rosy lilac. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

For Pinks, see Dianthus, pages 27 and 39.

PLATYCODON—GRANDIFLORUM (Tufted Harebell or Balloon Flower.) 28,000 S. 24 in. Very attractive for spring sales.

Blue. A clear deep violet blue. Tr. pkt., 35c; $\frac{1}{8}$ oz., 85c; $\frac{1}{4}$ oz., \$1.50.

PRIMULA—VERIS. 33,000 S. A very useful class for spring pot work. Plants lifted from outdoors in fall will make specimen pot plants from February on.

***Colossea**. Extra large flowers ($1\frac{1}{2}$ to 2 in.) on long stiff stems. Remarkable range of unusual colors. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00; 1 oz., \$15.00.

***Giant Munstead Strain**. The standard strain for bedding; in shades of yellow. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00; 1 oz., \$15.00.

***Polyanthus Mixture**. 12 in. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$2.20; $\frac{1}{4}$ oz., \$4.00; 1 oz., \$12.00.

Giant Monarch Strain. A fine large flowered mixture. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.75; $\frac{1}{4}$ oz., \$5.00; 1 oz., \$15.00.

Giant Crimson. **Giant Yellow.** **Giant White.**

Prices above three, each: Tr. pkt., 75c; $\frac{1}{16}$ oz., \$1.75; $\frac{1}{8}$ oz., \$3.00.

Blue. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.20; $\frac{1}{16}$ oz., \$4.00.

Vulgaris (True Yellow English Primrose). 19,000 S. 6 in. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.65; 1 oz., \$6.00.

For other Primula varieties, see page 33.

PYRETHRUM—ROSEUM (Painted Daisy). 18,000 S. The standard hardy cut flower class. The following varieties will make an excellent showing with a minimum of care.

Atrosanguineum. A popular dark crimson strain.

Rose. Single pink flowers.

***Robinson's Hybrids**. Large single mixture.

***James Kelway**. Fine dark red cut flower variety.

***Semi-Double Mixture**. An excellent strain.

Single Mixed. An attractive mixture of colors in the large-flowered single type.

Prices above six, each: Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.50.

MISCELLANEOUS PERENNIALS—Continued



Violas are as attractive as Pansies, even more free flowering, and are perfectly hardy.

PYRETHRUM, continued

***Extra Double Mixture.** The European producer of this fine strain assures us that the percentage of large extra double flowers exceeds that of any other strain. Note, however, that 2 years growth is required to produce the finest flowers in any strain of double Pyrethrum. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.40; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$7.50.

RUDBECKIA—Purpurea (Echinacea). 7000 S. 4 ft. Reddish purple flowers. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00.

SALVIA—Patens. 3800 S. 30 in. Navy blue hardy Salvia. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.50.

SAPONARIA—Ocymoides. 5500 S. 12 in. Trailing rose; hardy rock plant. Tr. pkt., 25c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.10.

SCABIOSA—2400 S. Excellent large flowered perennial cut flower material. Seed germination sometimes slow.

CAUCASICA. 30 in. Flower heads up to 3 in. across.

Goldingensis. Large flowered, fine deep lavender. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

Perfecta. Improved large flowered form of this lilac lavender strain. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

***House Hybrids.** Large flowers ranging from white to deep blue. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

Fischeri. 30 in. rounded bushy plants. Flowers a bright lilac-lavender color. Tr. pkt., 35c.

STATICE—Perennial Statice are very hardy, make good cut flower material and some as noted can be dried and dyed.

Caspia. 175,000 S. 30 in. Seedlings flower second season. Lilac. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

***Dumosa.** 19,000 S. 18 in. Dense clumps of silvery gray flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

***Latifolia** (Sea Lavender). 40,000 S. 30 in. Standard blue perennial Statice. Very hardy and may be dried. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.85.

Perezi. 14,000 S. Flowers in large lavender heads first year from seed. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.85.

For Annual Statice, see page 35.

THALICTRUM—Dipterocarpum (Meadow Rue). 12,000 S. 3 to 4 ft. Rosy purple clusters of flowers in early June. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

TRITOMA (Red Hot Poker)—22,000 S. Attractive long spikes from late summer until frost. 3 to 4 ft.

***Pfitzers Hybrids.** Large brilliant red.

Mirabilis Hybrids. Yellow and orange shades.

Prices above two, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

TROLLIUS—8000 S. Allow seed to stand outdoors over winter for good germination. Plants require moist soil.

Ledebouri, Orange (Globe Flower). The standard variety. 2 ft. tall. Tr. pkt., 50c; $\frac{1}{6}$ oz., \$1.25; $\frac{1}{8}$ oz., \$2.00.

Europaeus (Golden Ball). Late yellow. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

VIOLA—CORNUTA. 24,000 S. except Blue Elf. Miniature Pansies. Extra free-flowering and effectively used for bedding. Perfectly hardy.

Apricot. Prefer Chantreyland. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.10; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.00.

Arkwright Ruby. Maroon-scarlet with dark center. Bright color. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.65; 1 oz., \$8.00.

Black Imp (Nigra). Small, velvety, coal-black flowers. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

***Blue Elf** (Improved Johnny Jump Up). 43,000 S. Three-colored blooms of deep violet, light blue and gold are freely produced on low-growing plants. The $\frac{3}{4}$ inch blossoms improve the original Johnny Jump Up. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25.

***Blue Perfection.** Large flowered clear medium blue. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.10; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.00.

***Chantreyland.** Extra large flowered true apricot. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.10; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$6.00.

Firmament. Free blooming, clear sky blue. Tr. pkt., 50c.

***Helen Mount.** A richly colored combination of violet, lavender and canary yellow. Very free flowering with narrow bushy foliage. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25.

Jersey Gem. Attractive large deep orchid violet. Tr. pkt., 50c; $\frac{1}{6}$ oz., \$1.50.

***Lutea Splendens.** Clear golden yellow. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

Papilio. Blue and white combinations. Extra dwarf and free-flowering. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.

***White Perfection.** Small pure white. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.

***Large-Flowered Mixture.** Complete mixture of all large flowered varieties. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.



You'll find a ready sale for many kinds of band-grown vegetable plants next spring.

Vegetable Seeds for Florists

FOR FORCING

For easy reference we've marked the best vegetable varieties for greenhouse forcing with an asterisk (*). All are thoroughly tested.



FOR PLANT SALES

Band-grown vegetables mean earlier crops. Use the banded plant cut as your guide to suitable varieties for growing in Plant Bands.

BEANS

	4 ozs.	1 lb.	5 lbs.	10 lbs.
Bountiful. Green bush.....	\$0.15	\$0.40	\$1.75	\$3.50
Burpees Bush Lima.....	.20	.50	2.25	4.50
Golden Wax. Yellow bush.....	.15	.40	1.75	3.50
Kentucky Wonder. Green pole....	.15	.40	1.75	3.50
Stringless Green Pod.....	.15	.40	1.75	3.50


CORN

Country Gentleman. White.....	.15	.35	1.60	3.15
Golden Bantam.....	.15	.35	1.60	3.15
Golden Cross (Hybrid).....	.20	.50	2.25	4.50
Stowell's Evergreen. White.....	.15	.35	1.60	3.15

PEAS


Alderman. Tall.....	.15	.30	1.35	2.70
Thos. Laxton. Medium.....	.15	.30	1.35	2.70
Little Marvel. Dwarf.....	.15	.30	1.35	2.70

BEETS (1 oz. for 60-foot row)

 Sow when the ground can be worked and make successive sowings until July. Space rows 18 inches. *Broad-cast* seeds in Ball Bands for plant sale.

Crosby's Egyptian. (Original Strain)....	\$0.15	\$0.50	\$1.50
Detroit Dark Red. (Impr. Strain).....	.15	.50	1.50
*Early Wonder Tall Top. Valuable for BEET GREENS as well as globular roots...	.15	.50	1.50
*Extra Early Flat Egyptian. Earliest and best for forcing or home garden.....	.15	.50	1.50

BROCCOLI (About 10,000 seeds per oz.) Sow in March. Space plants 36x24".

 **Green Sprouting Early.** Valuable all-season "cut and come again" strain for home garden or market.....

	.40	1.30	3.90
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1 oz. 4 ozs. 1 lb.

BRUSSELS SPROUTS (About 7000 seeds per oz.) Sow in March. Space 36x18".



Long Island Impr. 90 days. Stem closely set with 1 1/2 in. round cabbage-like heads. 20" tall, good keeper.....

	\$0.45	\$1.50	\$4.50
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CABBAGE (About 7000 seeds per oz.)



Sow in Feb.-March for the first crop and in June for a fall crop. Space earlies 24x18", late 36x20". Days indicated are from the date the plants are set out. Handling cabbage plants in bands will prevent premature heading.

YELLOWS RESISTANT VARIETIES

In order of maturity.

Jersey Queen. 63 days. The resistant Jersey Wakefield. Heads are solid, conical....	.40	1.30	4.20
Marion Market. Heads a little later and larger than Copenhagen Market.....	.50	1.60	4.80
Wisconsin All-Season. Good winter keeper; large flat hard heads.....	.50	1.60	4.80
Bugner. 100 days. Round heads; average 10 lbs., 8 inches diameter. Excellent.....	.90	3.00	9.00
Wisconsin No. 8. Resistant Hollander...	.60	2.00	6.00

OTHER STANDARD VARIETIES

In order of maturity.

Early Jersey Wakefield. Pointed heads. Plants small, allowing close planting.....	.35	1.20	3.60
Golden Acre. Round head, short stem, 64 days. Uniform, firm, matures evenly.....	.45	1.50	4.50
Copenhagen Market. A very choice strain. Medium-sized heads; compact.....	.45	1.50	4.50
Charleston. ("Large Wakefield.") Heart shaped, average weight 4-5 lbs.....	.35	1.20	3.60

Vegetable Seeds for Florists (Continued)

CABBAGE, continued

	1 oz.	4 ozs.	1 lb.
Early Dwarf Flat Dutch. Heads nearly round, firm, fine flavor and high quality. . .	\$0.35	\$1.20	\$3.60
Early Winningstadt. 77 days. Hardy, dependable, heart-shaped. Average wt., 5 lbs. . .	.35	1.20	3.60
Glory. (Glory of Enkhuizen.) Valuable for kraut. Average 6-8 lbs. . .	.40	1.30	4.20
All Head Early. Good winter keeper. Deep heads, flat, firm, valuable for kraut, 77 days. . .	.35	1.20	3.60
All Season. Best in hot, dry weather. . .	.35	1.20	3.60
Hollander. Ferry's strain; round heads. . .	.70	2.30	6.90
Late Flat Dutch. Good keeper, firm heads. . .	.40	1.30	3.90
Danish Ballhead. Penn State Strain (Short Stem). Best late variety, heads large, flat, solid; keeps until late spring. 105 days. . .	.50	1.50	4.50
SAVOY and RED CABBAGE			
Chieftain. 85 days. Heads medium large; flat and firm. Crimped leaves. . .	.50	1.50	4.50
Mammoth Rock Red. Best red variety. . .	.50	1.50	4.50

CHINESE CABBAGE


Chihili. 70 days. 20 in. tall. Sure heading when sown late July, maturing in Oct. Excellent for salads or cooking. . .	.20	.70	2.00
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CARROT (1 oz. for 300-ft. row)


Sow as early as the ground can be worked and make successive plantings until Aug. 1st. Space rows 12 to 18".

*Amsterdam Forcing. Roots reddish orange, 6 in., uniformly tapered. Best for forcing. About 2 weeks earlier than other varieties. . .	.35	1.20	3.60
Chantenay Red Cored. Tapering. . .	.20	.60	1.80
Danvers Half Long. Tapering. . .	.20	.60	1.80
Hutchinson. Latest and largest variety. . .	.20	.70	2.10
Morse's Bunching. (All America Award). . .	.20	.60	1.80
Nantes Stump Rooted. Cylindrical. . .	.20	.70	2.10
Oxheart or Guerande. Easy to pull. . .	.20	.60	1.80
Supreme Half Long. Tapering. . .	.20	.70	2.10

CELERIAC

 Large, Smooth Prague. Turnip-rooted celery. Excellent winter keeper. 1/4 oz., 25c. . .	.70	2.35	7.00
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CELERY (About 8000 plants per oz.). Sow in Feb. or March for plant sales. Cover seeds lightly. Space 6x28". Days indicated are from date of planting.

 Giant Pascal. 140 days. The standard late green celery. 1/2 oz., 40c. . .	.70	2.35	7.00
Golden Plume. Select. 85 days. Desirable for home and market garden. 1/2 oz., 50c. . .	.90	3.00	9.00
Golden Yellow Self-Blanching. Dwarf. Standard market sort. 1/2 oz., 50c. . .	.90	3.00	9.00
Summer Pascal. 110 days. Uniform thick rounded stalks. 1/2 oz., 40c. . .	.70	2.35	7.00
Utah or Salt Lake. No. 99. 125 days. Mid-season, full-hearted and compact. 1/2 oz., 40c. . .	.70	2.35	7.00

CHICORY

Witloof. "French Endive." Roots grown outdoors during summer are forced in successive crops during winter in any spare room. Roots are planted 2" apart covered with 8" of sand. Heads are ready to cut in about 6 weeks. Catch crop. Ideal for salads. . .	.50	1.70	5.00
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1 oz. 4 ozs. 1 lb.

CHIVES. "Grass-Onion." A perennial, quickly started from seed. Popular for flavoring and borders. 1/4 oz., 30c. . .



CORN, see page 44.

CRESS. Curled or "Pepper Grass." Greenhouse catch crop. Ready in 40-60 days. Temp. 40-50° . . .

.25 .80 2.40

CUCUMBER. (About 1000 seeds per oz.) 1 oz. for 80 hills or 50-ft. row. Distance between rows 3 to 6 ft.



*A. & C. 68 days. 8 to 9 in. Deep green. Does well on light soil. . .

.25 .85 2.50

Chicago Pickling. 6 in. 60 days. . .

.25 .85 2.50

*Davis Perfect. Fine slicing variety. 9 in. . .

.30 1.00 3.00

Imp. Long Green. Ideal slicer. 12 in. . .

.30 1.00 3.00

*Longfellow. 72 days. One of the main forcing varieties. 12 to 14 in. long. . .

.35 1.20 3.50

National Pickling. 50 days. Considered best for small pickles. . .

.25 .85 2.50

Small Gherkin. 2 in. long; very prolific. . .

.30 1.00 3.00

Straight 8. Deep green; ideal shipper. . .

.30 1.00 3.00

CAULIFLOWER (About 7000 seeds per oz.). We offer only



genuine Danish grown seed, recognized as the world's finest strains. Sow in Feb. or March for plant sale. To handle plants in bands or pots is essential for unchecked growth and sure heading.

Space 18x24 in. Days indicated are from date plants are set out.

Danish Giant Dry Weather. Select. 70 days.

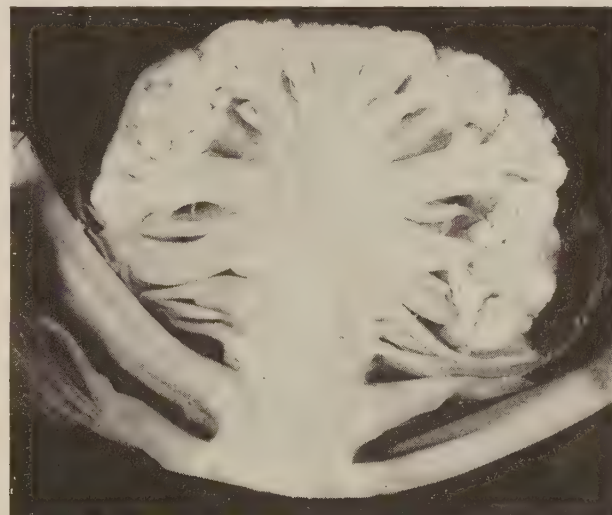
Early Dwarf Erfurt. Select. 60 days.

*Early Snowball "A." 55 days. Standard early. Fine for greenhouse forcing, frame or outdoor culture.

Snowball "X." 65 days. Well adapted for use under a wide range of conditions. Heads large, firm and pure white.


Snowdrift. 65 days. Larger than Snowball; firm and well protected by inner leaves. Good for distant shipping.

Prices on above five varieties, each: Tr. pkt., 40c; 1/4 oz., 30c; 1 oz., \$2.40; 4 oz., \$8.00; 1 lb., \$24.00.




Showing the solid, full head and non-ricing habit of our unexcelled Danish grown Cauliflower strains.

Vegetable Seeds for Florists (Continued)

EGG PLANT. (About 6000 seeds per oz.)
 Sow in February/March for plant sales. Space plants 18x24 in.
Black Beauty. Popular market variety. Dark purple. Broad, egg-shaped.....\$0.60 \$2.00 \$6.00


Fort Meyers Market. Oval fruits carried well above ground. Quite resistant to disease and excessive heat. ½ oz., 45c..... .80 2.70 8.00

ENDIVE. (1 oz. for 100-ft. row.) Sow in April or June/July for fall crop which may be stored for several months if taken up with soil before killing frosts, packed closely and stored in basement.
Full Heart Batavian. "Escarolle."..... .20 .60 2.00
Deep Heart Fringed. Upright growth.... .20 .60 2.00

POPULAR HERBS. Collection boxes of banded and assorted plants have proved a very popular spring seller. Of medicinal and high flavoring value as well as decorative appearance. Each packet will make at least 250 plants. Leaflet describing each variety with collection offer.
 **Anise—Basil—Borage—Coriander—Dill—Fennel—Sweet Marjoram—Sage—Savory—Thyme.**
 Prices above ten, each: Tr. pkt., 15c; 5 pkts., 60c. Collection one each of 10 varieties, \$1.00.

KALE. (About 7000 seeds per oz.)
Dwarf Green Curled. Very hardy.....\$0.25 \$0.75 \$2.40
Tall Green Curled Scotch. 30 in. tall... .25 .75 2.40

KOHLRABI (About 7000 seeds per oz.)
***Early White Vienna.** Standard sort for forcing and home garden. Globe-shaped... .30 1.00 3.00
Early Purple Vienna..... .30 1.00 3.00

LEEK (About 9000 seeds per oz.) More delicately flavored than the mildest onion. Has a decided sweet flavor. Cooked and served like asparagus. Grow for plant sale like Onions. Stores well; extremely hardy.
 **Monstrous Carentan.** Stem 8 in. Best strain of this fine "Asparagus-type" of the onion family. ¼ oz., 20c..... .60 2.00 6.00

LETTUCE. (15,000 seeds per oz., ¼ oz. for 100-ft. row.) There is a premium on lettuce PLANTS as they are readily transplanted in bands and heading varieties will make large solid heads, if set out early, even before late frost is over. Sow March 15 or 4 weeks before setting out plants. Space 14x18 in.

FORCING VARIETIES

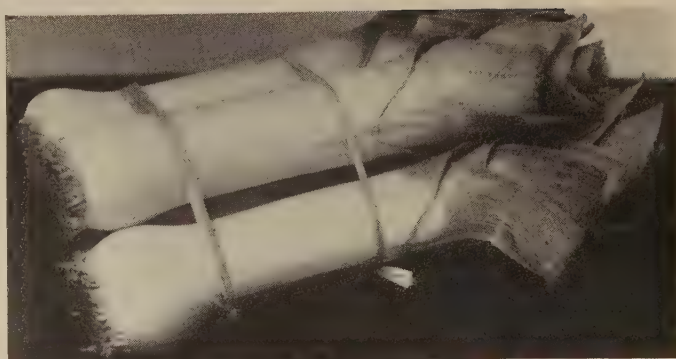
Approximate growing time 60–90 days. Temperature 50–60°. Transplant. Sow any time.

***Grand Rapids Forcing.** The standard LOOSE LEAVED variety for greenhouse forcing. Tender and sweet. Best early.... .25 .80 2.40

***Bibb Forcing.** Butterhead type of finest flavor and well adapted to greenhouse culture. Demands even temperature, more so than Grand Rapids..... .30 1.00 3.00

STANDARD VARIETIES

Big Boston. HEADING; used for spring and fall hot-bed and cold-frame culture.... .20 .70 2.10



Leeks are becoming more popular each year with home gardeners. Sell your customers started plants.

LETTUCE, continued


Black-Seeded Simpson. LOOSE-LEAVED.....\$0.20 \$0.70 \$2.00
Great Lakes. New outstanding HEAD lettuce; slow to bolt. "All America" winner... .50 1.70 5.10
Imperial No. 44. Sure HEADING Iceberg type. Recommended for plant sales..... .35 1.15 3.40
Looseleaf Prizehead. Leaves tinged red.. .20 .60 1.80
New York No. 12. Early sure HEADING Iceberg type. Does well in mid-summer... .35 1.15 3.40
May King. Earliest of the Butterheads. Valuable for forcing outdoors or frames.... .20 .70 2.00

MUSKMELON (1000 seeds per oz.)
Honey-Dew. MILDEW-RESISTANT... .30 .90 2.70
Honey Rock. 85 days. Flesh orange, sweet and of finest flavor. Good shipper... .30 .90 2.70
Iroquois (NEW). 90 days. Resistant Bender type. Orange flesh..... .30 .90 2.70
Pride of Wisconsin. 86 days. Thick, orange-fleshed, popular..... .30 .90 2.70
Resistant No. 45 or Hale's Best. 90 days. Flesh thick salmon. Resistant to mildew... .30 .90 2.70
Rocky Ford or Netted Gem. 90 days. Green fleshed. Oval 5 in. long..... .30 .90 2.70

WATERMELON

Harris Earliest. 80 days. Fruits oval... .20 .70 2.10
Stone Mountain. 95 days. Fruits round.. .20 .70 2.10
Wonder (Improved Kleckleys Sweet)..... .20 .70 2.10

ONION (About 9000 seeds per oz.)

 **Ebenezer.** Early flat straw-colored, mild-flavored; used for sets..... .35 1.20 3.60
Prizetaker. (Valencia.) Yellow, good keeper, flesh coarse and mild. ½ oz., 40c..... .70 2.30 6.90
Southport Red Globe. 110 days. Splendid keeper. Best red variety. ½ oz., 30c.. .50 1.60 4.80
Riverside—Yellow Sweet Spanish. Globe-shaped, keeping extra well for soft type. Mid-season. ½ oz., 40c..... .70 2.30 6.90
White Portugal. Bulbs flat, firm, excellent keeper widely used for sets, bunching and pickling. ½ oz., 30c..... .55 1.90 5.70
Yellow Globe Danvers. Firm and hard; excellent keeper. ½ oz., 25c..... .40 1.30 3.90
Yellow Bermuda (White Bermuda). Standard early. Flat, straw colored. ½ oz., 40c.. .70 2.30 6.90
Yellow Globe Brigham. Fine solid bulbs of high keeping quality. ½ oz., 25c..... .40 1.30 3.90

Vegetable Seeds for Florists (Continued)

1 oz. 4 ozs. 1 lb.

PARSLEY (¼ oz. per 100-ft. row). Roots are transplanted from outside to 4 in. pots or ground bed in cool house, or sow directly, 8x8 in. Fine crop either for cutting or to sell in pots.

***Extra Tripled Curled.** 75 days. Closely curled, very compact and productive. . . . \$0.15 \$0.50 \$1.50

***Paramount.** 90 days. The most dwarf and curled Parsley. Uniform dark green. . . .15 .50 1.50

PARSNIP (½ oz. per 100-ft. row). Sow early, space rows 18 in. Roots hardy.

Short, Thick. 100 days. Finest and earliest strain. Pulls easily, sweet delicate flavor .15 .50 1.50

Smooth White. 130 days. Evenly tapered—whiter than "Hollow Crown"15 .50 1.50

PEAS, see page 44.

PEPPER (About 3000 seeds per oz.) Sow 6 weeks before outdoor planting. Germinate seeds warm. Space plants 16x24 in. Days indicated are from date plants are set out.

Avalon (NEW). Sweet button shaped fruits about 2 in. across; red flesh. Fine for canning whole. See photo on page 48. ½ oz., 85c.1.50

California Wonder Select. (Sweet) 72 days. Standard of excellence in Sweet Peppers. Extra thick walls. ½ oz., 40c.70 2.40 7.00

Chinese Giant. (Sweet) 80 days. The largest Sweet Pepper. ½ oz., 35c.60 2.00 6.00

Golden Wonder (NEW). Golden fleshed California Wonder type. ½ oz., 85c.1.50 5.00

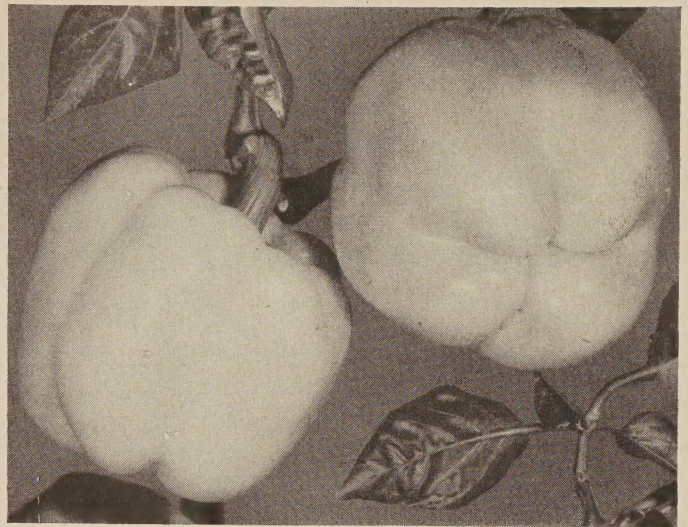
Harris' Early Giant. (Sweet) 63 days. Well-suited to northern states. ½ oz., 35c. . . .65 2.20 6.50

Hungarian Yellow Wax. (Hot) Very early. Plants small, productive. ½ oz., 40c. . .75 2.50 7.50

Large Bell or Bull Nose. 65 days (Hot). Ribs pungent, otherwise mild. ½ oz., 40c. . .70 2.40 7.00

Large Cherry (Hot). ½ oz., 40c.70 2.40

Long Red Cayenne. (Hot) 70 days. For pickles, canning or drying. ½ oz., 35c. . . .60 2.00 6.00



Golden Wonder Pepper—a California Wonder strain with rich, waxy, golden yellow flesh.

PEPPER, continued

1 oz. 4 ozs. 1 lb.

Oakview Wonder. (Sweet) 65 days. (Early California Wonder.) ½ oz., 40c. \$0.75 \$2.50 \$7.50

Pimento. (Perfection) Sweet. 72 days. Fruits smooth, conical. ½ oz., 30c.45 1.50 4.50

Red Chili. Numerous 2–2½ in. long fruits. Borne upright. Very pungent. ½ oz., 35c. . .65 2.20 6.50

Ruby King. (Sweet) 68 days. Very productive. ½ oz., 35c.65 2.20 6.50

Sunnybrook. Sweet, tomato-shaped fruits. Turns scarlet red earlier than most other Peppers. 73 days. ½ oz., 35c.60 2.00 6.00

Sweet Bull Nose. (Sweet Mountain.) Mild-fleshed. 65 days. ½ oz., 35c.65 2.20 6.50

World Beater. (Sweet) 70 days. Large, oblong green, thick flesh. ½ oz., 35c. . . .60 2.00 6.00

PUMPKIN

Small Sugar Pie. Early orange.15 .50 1.50

RADISH (1 oz. for 100-ft. row)

***Cavalier.** Short topped brilliant deep scarlet color. Choice for forcing. 10 lbs., \$12.60.15 .45 1.40

Crimson Giant. 30 days. Remains crisp. .15 .40 1.20

***Early Scarlet Globe.** (Short Top). Our strain of this very early forcing variety is a superior one. 23 days. An ideal florists' "catch crop." 10 lbs., \$12.60.15 .45 1.40

French Breakfast. 25 days. Oblong roots, scarlet, white tipped. Forcing and market. .15 .40 1.20

***Iceicle.** (Short Top.) 27 days. Best white for outdoors and forcing. 10 lbs., \$10.80. . .15 .40 1.20

RUTABAGA

American Purple Top.15 .30 .80

SPINACH (1 oz. for 100-ft. row)

***Cavallius (NEW).** A special forcing strain producing heavily under short day greenhouse conditions. Sow Oct. to late Jan. . .45 1.50 4.50

Giant Thick Leaved. NOBEL. 45 days. .15 .30 .80

King of Denmark. 48 days.15 .30 .80

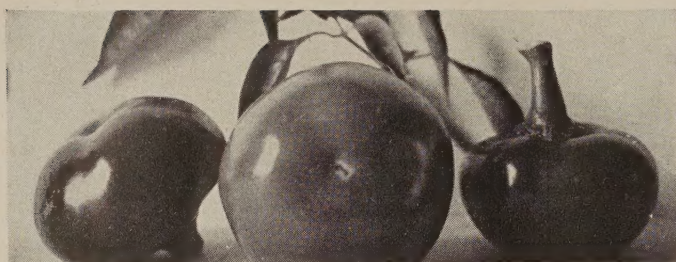
Savoy-Leaved or Bloomsdale. 40 days. .15 .30 .80

***New Zealand.** TETRAGONIA. Picked thruout the summer. Suitable for greenhouse forcing. Temp. 50–60°15 .40 1.20



Note the productive growth of the new Cavallius Spinach compared with an ordinary commercial strain.

Vegetable Seeds for Florists (Continued)



Button Pepper Avalon; fine for canning whole. See page 47.

	1 oz.	4 ozs.	1 lb.
SQUASH (1 oz., about 380 seeds.)			
Acorn. 60 days. Winter squash.....	\$0.20	\$0.65	\$1.90
Buttercup. 100 days. Winter squash....	.20	.75	2.20
Butternut. 100 days. Winter squash....	.40	1.25	3.75
Early Prolific Straightneck. 50 days.			
Summer squash. Edible when 4 to 14 in..	.15	.50	1.50
Hubbard. True. Green winter Squash...	.20	.65	2.00

SWISS CHARD. (1 oz. for 100-ft. row)

***Lucullus.** Deep green crumpled leaves. For forcing sow directly or transplant field-grown roots. Cool house temp. Pick leaves. .15 .50 1.50

TOMATO (About 7000 seeds per oz.)



We offer a list of the highest quality tomato seeds from specialist growers. Sow seeds 6 to 8 weeks before plants are set out. Days indicated are from date plants are set out.

SPECIAL FORCING VARIETIES

***Waltham Forcing.** The ideal forcing Tomato. Our greenhouse grown seeds from selected plants. Even sized, 4 oz. scarlet fruits, firm, good shippers and do not crack. Plants take little room, may be grown in old buckets. Flowers self-pollinating. Early and heavy yielder. This variety also fine for outdoor trellis. Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.00.

***Michigan State Forcing.** Wilt Resistant. Distinct greenhouse Tomato developed at Michigan State College. Rich, deep scarlet fruits, average 5-6 oz., globular, in large clusters. Highly self-pollinating but responds well to daily tapping of flowering clusters. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Globe "A." Pink fruits, a little larger than regular Globe. Developed by Ohio State Experiment Station. Ships well. Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.00.

Marhio or Marvelous. Pink fruit, wilt resistant and almost free from cracks. Vigorous grower requiring high temperature and particularly fine for fall forcing. Extra select stock. Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.00.

STANDARD VARIETIES

	1 oz.	4 ozs.	1 lb.
* Bonny Best. Unexcelled for all purposes. Smooth and firm. 73 days.....	\$0.60	\$2.00	\$5.90
Break-O'Day. Early WILT-RESISTANT, globe shaped. Heavy producer, flesh firm..	.60	2.00	6.00
Chalk's Early Jewel. 75 days. Heavy producer, scarlet-red, smooth and firm.....	.50	1.70	5.00
Crimson Cushion or Beefsteak. Large, flat, bright scarlet; solid, very prolific.....	.80	2.70	8.00
Dwarf Champion. Tree-like. Requires no support; medium size, solid pink fruit..	.70	2.35	7.00

TOMATO, continued

	1 oz.	4 ozs.	1 lb.
Dwarf Stone. 81 days. Strictly dwarf, tree-like, fruits bright red, smooth and solid....	\$0.60	\$2.00	\$6.00
Earliana. Medium size, deep scarlet, firm and smooth. 64 days. Fine early variety...	.70	2.35	7.00
Early Detroit. Valuable for shipping. Pink, medium large, smooth fruit. 78 days..	.60	2.00	6.00
Firesteel. 70 days. Deep red, sure setting. Best under drouth conditions.....	.70	2.35	7.00
Globe. (LIVINGSTON'S) Heavy producer. Large purplish pink fruit; smooth and solid.....	.60	2.00	6.00
Golden Queen. 83 days. Large yellow fruited; firm and smooth, mild flavor.....	.70	2.35	7.00
Greater Baltimore. Mid-season. Earlier than Stone, heavy producer, deep scarlet..	.50	1.70	5.00
Gulf State Market. Very fine second early, crimson, medium size, very solid....	.60	2.00	6.00
Italian Canner. Red plum shaped. Valuable for canning whole, paste and dehydration. ½ oz., 50c.....	.90	3.00	9.00
John Baer, Certified. Standard all-purpose variety, second early, medium size, red	.60	2.00	6.20
June Pink. Earliest pink, early shipper..	.65	2.20	6.50
Jubilee. Orange. Bronze medal in All-America trials. Non-acid, meaty. ½ oz., 50c.....	.90	3.00	
* Master Marglobe, Certified. Valuable for shipping and HIGHLY RESISTANT. 75 days. Extra select stock. ½ oz., 45c...	.80	2.70	8.00
Marglobe. Regular Stock.....	.60	2.00	6.00
Oxheart. 90 days. Extra large, heart-shaped, few seeds, mild flavor. ½ oz., 60c..	1.10	3.70	11.00
Penn State Earliana. Extra early, red, large, smooth, mild and solid.....	.75	2.50	7.50
Ponderosa. Extremely large; purplish pink, few seeds, mild flavor, 85 days.....	.85	2.85	8.50
Pritchard. (Scarlet Topper.) Fine all-round variety, heavy yielder; second early; WILT-RESISTANT.....	.65	2.20	6.50
Rutgers, Certified. Red, smooth, thick walls—firm and mild. Does well even at a low fertility level. Favorite in sandy soil..	.65	2.20	6.50
Stokesdale, Certified. 75 days. Red, globular; fine canning variety.....	.65	2.20	6.50
Stone. 85 days. Valuable for market and canning; heavy producer; deep scarlet....	.65	2.20	6.50
Valiant. 70 days. Globe shaped; large, smooth red fruits.....	.90	3.00	9.00
Victor. 65 days. Extra early. Fruits scarlet. Determinate vine, takes little room. ½ oz., 50c.....	.95	3.25	9.50
Red Cherry } Small fruited, for pickles, salads or preserves	.75	2.50	
Yellow Plum }			
Yellow Pear }			
Yellow Husk or Ground Cherry			

TURNIP. Purple-Top, White Globe..... .15 .30 .80

Catalog No. 56—January 1948—Business Terms

Note—Cash or C.O.D. Discount! Prices quoted on Cyclamen seed and Plant Bands are net, no cash discount. Plant and Bulb prices are net unless quoted differently in special catalogs or lists. Otherwise, when cash is enclosed, or on C.O.D.s, a discount of 5% is allowed on all orders from \$1.00 to \$25.00. On \$25.00 and over, 8% is allowed.

Payment should accompany all orders unless credit has been established. C.O.D. shipments 50% in advance. **Important.** Make all checks or money orders payable to **Geo. J. Ball Inc., WEST Chicago, Illinois.** We cannot be responsible for currency sent in the mail.

Note. Our seed sold only in our printed packets or containers. Order from us only or through our regular agents.

All Prices in this catalog subject to change without notice.

All Seed Orders sent prepaid in U.S. and Canada at catalog prices.

Our address is **WEST Chicago, Illinois** on Highways U.S. Alt. 30 or Illinois 64, and on Chicago and North Western Ry. You are always welcome here.

Half Trade Packets supplied only where so listed.

Our Business is with Florists only. We do not sell at retail.

Shortages—All items in this catalog are offered subject to crop failures or shortages.

We Use Every Precaution to supply seeds of highest quality only and promptly refund price paid for same if unsatisfactory with reasonable care.

All seeds sold under Seedman's disclaimer as follows: We, Geo. J. Ball, Inc., give no warranty, express or implied, as to the productiveness of any seeds, bulbs or plants we send out and we will not be in any way responsible for the crop. Our liability, in all instances, is limited to the purchase price of the seeds, bulbs or plants.

Azaleas — for growing on

Gro. J. Ball
INC
WEST CHICAGO,
ILLINOIS, U. S. A.

Order your supply of these high grade plants now for spring delivery.

KURUME VARIETIES

Coral Bells, Hexe, Salmon Beauty, Snow, Hinodegiri, Pink Pearl, Hexe de Saffelaere, Orange Coral Bells, Lorraine, and Massasoit.

PERICAT VARIETIES

Sweetheart Supreme, Madam Pericat, Pink Pericat, Twenty Grand, Gardenia Supreme, Sweetheart, Jersey Bell, Pride, Dawn, Splendor, China Sea and Baby Pericat.

F.O.B. FLORIDA

3 to 5 branched transplants.....	\$100.00	} Minimum order 250.
5 to 10 branched transplants.....	125.00	

F.O.B. OHIO

3 to 5 inch.....	\$20.00	} Minimum order 100.
4 to 6 inch.....	30.00	
6 to 8 inch.....	50.00	
8 to 10 inch.....	75.00	

PRICES PER 1000

PRICES PER 100

LARGE FLOWERED INDICA AZALEAS

Paul Schame, Jean Haerens, Triomphe, Mme. Van der Cruyssen, Eclairer, Vervaeneana, Vervaeneana Alba, Niobe, Albert and Elizabeth, Comte de Kerchove, Ernest Eeckhaute, Dame Melanie (Red, White and Pink).

F.O.B. FLORIDA	PRICE PER 1000
Transplants.....	\$150.00

F.O.B. OHIO	PRICES PER 100
3 to 5 inch.....	\$30.00
4 to 6 inch.....	50.00
6 to 8 inch.....	75.00

Minimum order transplants, 250 plants. Others, 100 plants.



Our field grown Azaleas are second to none in quality.

Cyclamen

from specialist growers

No need to run the risks of starting your own when you can buy quality plants like these at honest prices. Place your order now and forget your Cyclamen worries.

2 1/4 in., ready Mar. 1st. \$17.50 per 100; \$150.00 per 1000. Minimum order 100.

3 in., ready May 1st. \$32.50 per 100, \$300.00 per 1000. Minimum order 50.

4 in., ready Aug. 1st. \$50.00 per 100, \$475.00 per 1000. Minimum order 25.

These are well balanced assortments of popular colors.

Save LABOR COSTS VALUABLE SEED TIME and PATIENCE with these seeders

- Simple to operate • Nothing to get out of order • Sows a trade packet or a full ounce of seed • Made of rust proof metal • Should last a lifetime with ordinary care • Will save its cost this spring in sowing your bedding plant seed alone • Ideal for small growers.

As illustrated, these seeders fit across a seed flat and with a flick of the wrist, will sow a row at a time uniformly, and with just the right amount of seed. LITTLE WONDER SEEDER (upper right) operates by turning knob shown on left which rotates drum, dropping seeds. Drums are interchangeable and are available in the 5 following sizes for sowing various kinds of seed: **Drum A** will handle Petunia, Snapdragon, Cineraria and Primula seed. **Drum B** will handle Celosia, Celery, Pansy and Alyssum seed. **Drum C** will handle Stock seed. **Drum D** will handle Salvia seed. **Drum E** will handle Cabbage Seed.

Seeder made to fit either a 12 or 14 inch (outside width) flat. Can be made to fit any other size flat at slight additional cost.

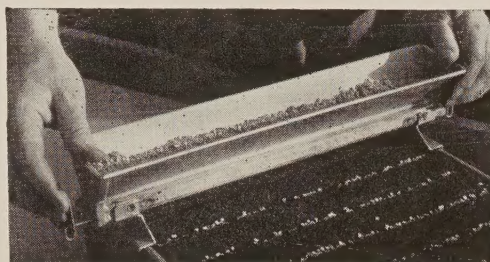
Specify drums wanted and outside width of your flats when ordering.

LITTLE WONDER SEEDER with any one drum sent postpaid for \$9.75. Extra drums \$1.50 each. Seeder with complete set of 5 drums, \$14.75.

PLANTOMAT JR. (lower right) handles Tomato and Pepper seed only. Supplied to fit flats 12 to 14 inches outside width. Specify outside width of your flats when ordering. Sent postpaid for \$9.75. Made to fit other width flats at slight additional cost. These seeders (made by H. J. Kern and Son, Perrysburg, Ohio) were exhibited and favorably commented on at the Ohio State Short Course last summer.



LITTLE WONDER SEEDER sowing Snapdragon seed. Avoids damping-off caused by thick sowing.



PLANTOMAT JR. sowing Tomato seed. Even sowing means less spindly seedlings and better plants.



Since 1890

This 15 year old boy with a hoe obviously is visionary, so we must overlook his apparent "slow-down." This, his first greenhouse job, called for working about 11 hours daily for \$8.00 monthly, and with this he saved his first \$100. Not unusual those days, for thrift was not yet outmoded during the so-called "gay nineties." But those 5 little 12x50 ft. flue-heated greenhouses in the background, each with its little chimney, were of prime interest to him. To clean those flues it was his job to drag a small Christmas tree thru each one weekly. For ventilation 6 in. boards attached to the ridge were used, battening them down for winter, and fastening them open with the coming of spring. Watering was done with a can, of course. But our modern greenhouse business was in the making and great progress has been made over these 58 years.

Little could this day-dreaming boy visualize automatic ventilation, Dunham thermostatically controlled heating, and the automatic sub-watering principles of today. And—little did he know about the single plant selection principle that later so interested him and that is so greatly improving greenhouse stock today. These innovations will be found in our above 2½ acres of glass. They are entirely devoted to growing and originating your finest, most valuable strains of—



"Flower Seeds for Florists"

Gro. J. Ball